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AIR FORCE AVIONICS LAB WRIGHT-PATTERSON AFB OHIO  
A USERS GUIDE TO COMPUTER PROGRAMS SIAAP AND INFACE.(U)  
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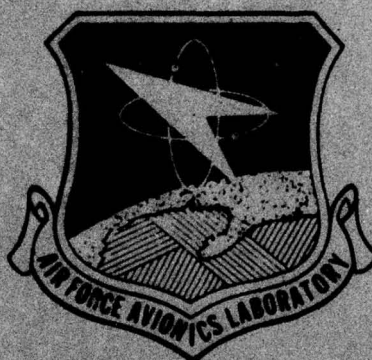
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# A USERS GUIDE TO COMPUTER PROGRAMS SIAAP AND INFACE

SYSTEMS SIMULATION BRANCH  
SYSTEMS AVIONICS DIVISION

JULY 1976



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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report contains the documentation necessary to utilize the capabilities of program SIAAP (Standard Interface Applicability Analysis Program) and its supporting programs. This program supplies a given set of subsystem interface modules and LRU (Line Replaceable Units) locations to a defined system of signals and evaluates time effectiveness with which the thus defined multiplex system can interface the signaling requirements. Examples are given on the results of these programs and the coding of signal data. Program SIAAP		

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## 20. Abstract (Continued)

consists of one main program and ten subprograms. There are four other programs which support SIAAP. This program applies a given set of subsystem interface modules (SSIM's) and LRU assignments to a defined set of signals and evaluates in tabular form the effectiveness with which the multiplex system can interface the signal set. Various evaluation indicators can be output as desired for analysis of the achieved fit. In addition, a list of the signals not matched with an interface is provided, along with a summary count of the unmatched signals. Each signal with its essential characteristics is written in a format compatible with the standard 80-column card.



FOREWORD

This technical report describes the results of a study performed in the System Simulation Branch (AAF) of the Air Force Avionics Laboratory, Wright-Patterson Air Force Base, Ohio. This report was written under the in-house work unit 20030710.

The author would like to acknowledge Ms. Audrey A. Goldsmith of Systems Research Labs, Inc. Her time and effort to help debug and run these programs as well as modify many programs already in existence was of great value. Without her assistance, this manual would not have been possible.

Thanks is also extended to Mr. Dale B. Stimson of System Consultants Inc. for assisting in debugging many of these programs, as well as assisting in the use of the DEC-10 in this simulation report.

Credit is also due SCI Systems, Inc., Huntsville, Alabama, for creating the original SIAAP and for preparing the original documentation of this program.

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## TABLE OF CONTENTS

SECTION	PAGE
I INTRODUCTION	1
II COMPUTER PROGRAM AND SUBROUTINES	4
1. Standard Interface Applicability Analysis Program (SIAAP)	4
a. Operational Instructions	5
(1) LRU/RT File	5
(2) SSIM File	7
(3) System File	13
(4) Output Option Deck	13
b. Operational Description	20
(1) General	20
(2) Interface Tests	25
(3) Supporting Subroutines	36
2. Program INFACE	36
3. Program TAPEFILE	41
4. Program TAPEPRINT	41
5. Program SIGNALCOUNT	41
III SIGNAL FLOW LISTINGS	49
Standard Interface Signal Flow Listing Format	49
a. Designation Field	49
b. Signal Name	52
c. Destination	52
d. Classification	52
e. Minimum Bits Per Word (Min Bits/WD)	53
f. Minimum Samples Per Second (Min Sam/Sec)	53



## TABLE OF CONTENTS (Cont'd)

SECTION	PAGE
g. Electrical Interfaces	53
(1) Discrete Inputs	54
(2) Discrete Outputs (Passive Load)	56
(3) Discrete Outputs (Active Load)	56
(4) Analog Inputs	57
(5) Analog Outputs (Cols 65-79)	58
(6) Synchro Inputs (Cols 51-57)	58
(7) Synchro Outputs (Cols 65-72)	58
IV PROGRAM CONTROL	59
1. General Control Card Format For The DEC-10	59
a. SIAAP, INFACE and TAPFIL Control Cards	60
b. TAPRNT and SIGCNT Control Cards	61
c. DEC-10 Program Control From A Remote Terminal	62
2. Program Usage	63
a. Creation of Mag Tape	63
b. Order of Program Usage	63
V SYSTEM "B" DEVELOPMENT	66
REFERENCES	74
APPENDIX A PROGRAM LISTINGS	75
1. Program SIAAP	76
2. Program INFACE	105
3. Program TAPEFILE	127
4. Program TAPEPRINT	130
5. Program SIGNALCOUNT	132
APPENDIX B DATA FLOW LISTINGS	135



## LIST OF ILLUSTRATIONS

FIGURE		PAGE
1	General Arrangement of SIAAP Data Inputs	6
2	LRU/RT File Structure	6
3	LRU/RT File Card Format	7
4	LRU/RT Assignment Card Format	7
5	SSIM File Organization	8
6	Format of SSIM File Card	8
7	SSIM Type Cards	8
8	END Card Format	9
9	SSIM File Field Designations	10
10	System Card Format	13
11	Output Option Control Cards	14
12	"MST SUMMARY" Output Example	15
13	"MST by TERM" Output Example	15
14	"MST by MOD" Output Example	16
15	"MOD SUMMARY (R2)" Output Example	16
16	"MOD by TERM (R1)" Output Example	17
17	"MOD by TYPE (R2)" Output Example	17
18	"UF Summary (R2)" Output Example	18
19	"UF by TERM (R1)" Output Example	18
20	"UF by MOD (R1)" Output Example	18
21	PAUSE Card Format	19
22	MODIFY Card Format	19
23	END Card Format	20
24	SIAAP Data Input Section Flow Chart	21

## LIST OF ILLUSTRATIONS (Cont'd)

FIGURE		PAGE
25	SIAAP Analysis Section Flow Chart	22
26	SIAAP Data Output Section Flow Chart	24
27	ITPDI Subprogram Flow Chart	26
28	ITADI Subprogram Flow Chart	28
29	ITAI Subprogram Flow Chart	29
30	ITSI Subprogram Flow Chart	31
31	ITPDO Subprogram Flow Chart	32
32	ITADO Subprogram Flow Chart	34
33	ITAO Subprogram Flow Chart	35
34	LRUNUM Subprogram Flow Chart	37
35	LOC Subprogram Flow Chart	38
36	EVAL Subprogram Flow Chart	39
37	Program INFACE Data Input Flow Chart	40
38	Program INFACE Analysis Section Flow Chart	42
39	Program INFACE Data Output Section Flow Chart	43
40	Program TAPFIL and Data Deck Structure	44
41	Program TAPFIL Data Input Flow Chart	45
42	Program TAPFIL Data Output Section Flow Chart	46
43	Program TAPRNT Flow Chart	47
44	Program SIGCNT Flow Chart	48
45	Standard Interface Signal Flow Worksheet	50
46	Program Control Card - General Listing	59
47	SIAAP, INFACE and TAPFIL Control Cards	60
48	Program TAPRNT and SIGCNT Control Cards	61



## LIST OF ILLUSTRATIONS (Cont'd)

FIGURE		PAGE
49	Compilation Only Control Cards	62
50	INFACE and TAPFIL Control Cards for Remote Terminal Usage	62
51	Program SIAAP and INFACE REMOTE TERMINAL INPUTS	63
52	Control Card Format	65

## TABLES

TABLE		
1	Electrical Interface Characteristics	55
2	System "B" LRU Identification	67

## LIST OF ABBREVIATIONS

<u>Abbreviation</u>	<u>Title</u>
AC	Alternating Current
ADI	Active Discrete Input
ADO	Active Discrete Output
AI	Analog Input
AO	Analog Output
DC	Direct Current
DIG/NUM	Digital/Numeric
EOD	End of Data
EOJ	End of Job
LRU	Line Replaceable Unit
MOD	Module
MST	Module, Signal. Terminal
MUXSIM	Multiplex Simulation
PAS	Pass Word
PDI	Passive Discrete Input
PDO	Passive Discrete Output
RT	Remote Terminal
SI	Synchro Input
SIAAP	Standard Interface Applicability Analysis Program
SSIM	Subsystem Interface Module
TERM	Terminal
UF	Utilization Factor



## SECTION I

### INTRODUCTION

#### 1. GENERAL

This report describes the results of a six month effort to document and adapt program SIAAP to the DEC-10. This report is also a user's manual demonstrating how to use the programs and how to create a unique signal list. The A-7D (System "B" or SYSB) signal list was used as the basis for this report.

Program SIAAP will partition and evaluate the distribution of the signals in the A-7D signal list across a defined set of SSIM's and LRU's. However, SIAAP cannot optimize this signal distribution; this task is performed by the user. Program INFACE provides an output which is a series of summaries by SSIM for each remote terminal (RT) and also summarizes the number of interfaces by LRU.

A Subsystem Interface Module (SSIM) is a hardware module which will provide the signal conditioning between the Line Replaceable Unit (LRU) and the Multiplex Terminal Unit (MTU), which in turn provides the digital interface to the multiplex data bus. There are two distinct classes of SSIM's; those that accept analog data from the LRU, and those that transmit analog data to the LRU.

The SSIM is a subunit within a Remote Terminal (RT). The RT is subdivided into two major divisions; the MTU and the Subsystem Interface Unit (SSIU) of which the SSIM is a member.

There are five computer programs presented in this document along with instructions for their use. Taken together, these programs provide a powerful tool whereby raw signal flow data can be manipulated and the signal interface data analyzed to the point where a set of optimized SSIM's may be specified.

## 2. HISTORY OF THE DEVELOPMENT OF SIAAP, INFACE AND RELATED PROGRAMS

The Standard Interface Applicability Analysis Program (SIAAP) was developed by SCI Systems, Inc., Huntsville, Alabama, under Contract # F33615-73-C-1222. This contract was for an RT definition and Program SIAAP was developed as an aid.

Programs INFACE, SIGNAL COUNT, TAPEPRINT and TAPE FILE were developed by Major James Riley. The last three programs are for formatting and checking the data tape for input to Programs SIAAP and INFACE.

## 3. CAPABILITIES OF PROGRAM SIAAP AND INFACE

Given a set of subsystem interface modules (SSIN's), LRU locations and a well defined signal list, program SIAAP will partition and evaluate the distribution of these signals within the previously defined set of SSIM's and LRU's. However, the optimization of the signal distribution must be done by the user by redefining the LRU locations. This program will generate a list of signals which cannot be matched to the available SSIM's. It is the user's option to modify - if possible - the existing SSIM's or to create new SSIM's to match these unmatched signals.

Program INFACE provides an output which is a series of summaries by SSIM for each terminal and also summarizes the number of interfaces by LRU. This allows the user to implement the terminal loading in the most efficient manner. To arrive at an optimal terminal partitioning scheme, the user will have to manipulate the LRU and terminal assignments.

## 4. RELATIONSHIP BETWEEN SIAAP, INFACE AND MUXSIM

Programs SIAAP and INFACE will assist in extending the presently contracted multiplex simulator (MUXSIM) design to encompass many of the multiplex simulation problems. This simulation program (MUXSIM) is concerned with the interaction between terminal units via a mux bus. Programs SIAAP and INFACE are concerned with the interaction between the LRU and the terminal units. Therefore, before a multiplex bus simulation can be valid, the terminal loading must be known. Programs SIAAP and INFACE will provide the necessary terminal loading.



## 5. SYNOPSIS OF SUCCEEDING SECTIONS

Section II contains a description of the computer programs and sub-routines. SIAAP and INFACE are the main programs. They are for exercising LRU, SSIM and RT partitioning schemes. Programs TAPE FILE, TAPE PRINT and SIGNAL COUNT are used to verify the data tape required by Programs SIAAP and INFACE. Composition, flow charts, card deck order and usage of these programs are presented. Section III contains the necessary information to create an orderly signal flow data deck for Programs SIAAP and INFACE. Section IV demonstrates how to code and format the required control cards for program usage on the DEC-10. Section V shows how a signal flow data deck (SYSB) was developed, what signals were used, their classification and format structure.

Appendix A contains the compiled listings of all programs, subroutines and subfunctions. Appendix B contains the results and data flow listings of systems "A", "B" and "C".



## SECTION II

## COMPUTER PROGRAMS AND SUBROUTINES

There are five computer programs of interest presented in this report. The first program, SIAAP, was developed by SCI Systems Inc. (Ref 1). The remaining four were created or significantly modified by Major James Riley.

Taken as a whole, these programs can provide a tool whereby unformatted data can be manipulated and the signal interface data analyzed to the point where a set of optimized subsystem signal interface modules may be specified.

#### 1. STANDARD INTERFACE APPLICABILITY ANALYSIS PROGRAM (SIAAP)

Program SIAAP applies a given set of subsystem interface modules and LRU locations to a defined system of signals and evaluates the effectiveness with which the thus defined multiplex system can interface the signaling requirements. Various evaluation indicators can be output as defined for analysis of the achieved fit. The various available indicators are listed below.

1. Matched signals by terminal.
2. Matched signals by SSIM type.
3. Summary of matched signals.
4. SSIM's required by terminal.
5. SSIM's required by SSIM type.
6. Summary of SSIM requirements.
7. Achieved utilization factor by terminal.
8. Achieved utilization factor by SSIM.
9. Summary of achieved utilization factor.
10. 4 through 9 above at redundancy levels 1 through 9.

In addition, a list of the signal interfaces not matched is provided along with a summary count of the unmatched signals. There is now the capability within Program SIAAP to suppress this list, if desired. Further outputs from SIAAP are referenced lists of LRU assignments by terminal and SSIM characteristics by type.

The following two sections (a. and b.) discuss in detail, the manipulation of SIAAP and the techniques used within SIAAP to match signals to interface modules. A complete listing of the SIAAP program is given in Appendix A, section 1.

a. Operational Instructions

The general arrangement of data for input to SIAAP is illustrated in Figure 1. The data inputs to SIAAP are divided into 4 major groups: LRU/RT File, SSIM File, System File and Output Options. The first three of these may be entered in any order, but all three must precede the output option deck. A detailed description of each of these subgroups follows:

(1) LRU/RT File

The LRU/RT File is structured as shown in Figure 2. This deck begins with a LRU/RT FILE card formatted as shown in Figure 3.

The "LRU/RT ASSIGNMENT" cards are placed following the LRU/RT FILE card. These cards define the LRU to RT assignments which are to be used. Each LRU within the signaling system to be analyzed must be given an RT assignment in this file. If an LRU assignment is omitted from this file, an informative diagnostic will be output during the analysis run each time the unassigned LRU is discovered. Although the analysis will run to completion, those signals which contained an unassigned LRU will not be included in the final output results. The LRU/RT ASSIGNMENT cards are formatted as shown in Figure 4.

No ordering need be observed in formation of the LRU/RT ASSIGNMENT card deck; however, an ordering by RT number, then by LRU designator has shown to be advantageous if hand manipulation of the deck becomes necessary.

Termination of the LRU/RT file is by a "99" card. This card contains the number 99 in columns 4 and 5.



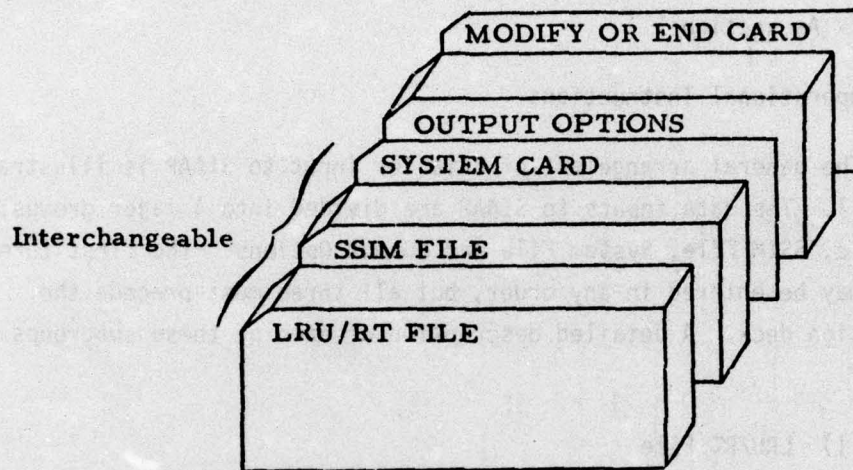


Figure 1. GENERAL ARRANGEMENT OF SIAAP DATA INPUTS

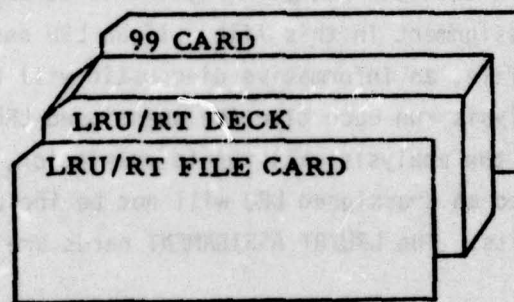


Figure 2. LRU/RT FILE STRUCTURE

Column Number	1	2	3	4	5	6	7	8	9	10	11
	L	R	U	/	R	T		F	I	L	E

Figure 3. LRU/RT FILE CARD FORMAT

Column Number	1	2	3	4	5	6	7	8	9	10
					1		T	D	I	A
				└──┬──┘			└──┬──┘			
				RT			LRU			
				Number			Designator			

Figure 4. LRU/RT ASSIGNMENT CARD FORMAT

## (2) SSIM File

The SSIM file defines the various SSIM types and their electrical interface characteristics which can be utilized to interface the signals of the system file. Seven major types of SSIM's have been defined. These are Passive Discrete Input (PDI), Active Discrete Input (ADI), Analog Input (AI), Synchro Input (SI), Passive Discrete Output (PDO), Active Discrete Output (ADO) and Analog Output (AO). Under each of these major headings, 5 different SSIM's may be defined allowing a total of 35 different SSIM's to be utilized. Figure 5 depicts the organization of the SSIM File.

The SSIM file is begun with a "SSIM FILE" card formatted as shown in Figure 6.

One of the seven SSIM TYPE cards is placed following the SSIM FILE card. The format of these cards is shown in Figure 7.



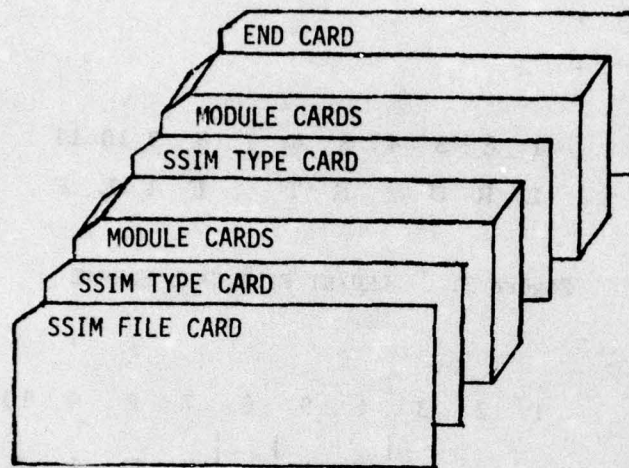


Figure 5. SSIM FILE ORGANIZATION

Column Number	1	2	3	4	5	6	7	8	9
	S	S	I	M		F	I	L	E

Figure 6. FORMAT OF SSIM FILE CARD

Column Number	1	2	3
	P	D	I
	A	D	I
	A	I	
	S	I	
	P	D	O
	A	D	O
	A	O	

Figure 7. SSIM TYPE CARDS

Each SSIM TYPE card may be followed by up to 5 of its associated "MODULE" cards. Either another SSIM TYPE card or an "END" card may be placed following the SSIM TYPE card and its associated MODULE cards. The seven SSIM TYPE CARD and MODULE card groups may be entered in any order. Additionally, only those groups of the seven which are to be considered need be entered. The END card, formatted as shown in Figure 8, terminates the SSIM file.

Column	1	2	3
Number	E	N	D

Figure 8. END CARD FORMAT

(a) SSIM Interfaces

Each MODULE card defines the electrical interface characteristics of one SSIM. The first four character spaces of each module card must be left blank. The remaining fields of the MODULE cards are governed by the type of module being described. As with the SSIM TYPE cards, there are seven different MODULE card formats. Each of these formats is discussed below.

(1) Passive Discrete Input (PDI). Interface for discrete signal sources which represent logic one and zero with two unique voltage levels is provided by the PDI SSIM's. The format for recording the characteristics of these SSIM's is shown in Figure 9. As a convention, all data should be recorded right justified in their appropriate fields. Additionally, there are three unique data formats which are utilized. The first two of these, integer and floating point, are conventional. The third type, referenced as a multiplier field throughout this discussion, conforms to all the characteristics of a floating point field. In addition, multipliers of K ( $10^3$ ) and M ( $10^6$ ) may be entered in the far right-hand position of the field. Also allowed, is the character I to represent infinity.

When this character (I) is utilized, any multipliers are ignored and the value of  $10^{12}$  is substituted. Any non-numeric characters recorded within a multiplier field with the exceptions noted above, are treated as zeros.



1	10	20	30	40	50	60	70
SSIM, FILE							
PDI							
	2	1.8	100K	0.01	3.2		
ADI							
	50K	1K	32				
AI							
	10	-2.5	1M	13	DC	32	2
SI							
	11.8	20K	13	8			
PDO							
	50	100K	200	32			
ADO							
	6	0	0	0	32		
AO							
	10	-2.5	0	13	DC	8	
END							

Figure 9. SSIM FILE FIELD DESIGNATIONS



The first two fields of the PDI module cards specify the logic one and zero thresholds of the SSIM. However, for consistency and ease of documentation, it would be best that the logic thresholds be entered in a consistent manner, i.e., logic one and logic zero in that order. The third field, a multiplier field, specifies the input impedance of the SSIM. The fourth field records in floating point format, the maximum per channel power dissipation of the SSIM in watts. Recorded in the final field (an integer field), is the number of channels which can be accommodated by one of these SSIM's.

(2) Active Discrete Input (ADI). Discrete signal sources which represent logic one and zero by changes in impedance level are interfaced by the ADI SSIM's. There are three fields required to specify these SSIM's as shown in Figure 9. The first two fields record in multiplier field format the logic one and zero impedance thresholds of the SSIM. These fields can be entered in any order, but for ease of comprehension, logic one, then the logic zero should be entered in that order. Placed in the third field in integer format is the number of channels per module.

(3) Analog Input (AI). All analog signal sources are interfaced by the analog input SSIM's. Twenty-two fields as shown in Figure 9 are provided to record the characteristics of the AI SSIM's. Fields one and two record in floating point format the upper and lower bounds respectively of the unit gain conversion range. In field three is placed the input impedance of the SSIM utilizing multiplier field format. The quantization provided by the SSIM is recorded in integer format in field four. The signal type AC or DC is selected by recording the desired type in this field. If left blank, the SSIM is assumed to handle both AC and DC inputs. The sixth field specifies in integer format the number of channels per module. The following sixteen fields are for recording the gains provided by the programmable gain amplifier. At least one gain must be recorded or the SSIM will be ignored. Furthermore, the gain 1 must also be specified or it will not be considered. The gain fields are floating point format.

(4) Synchro Input (SI). Synchro signal sources are interfaced by the SSIM's. The module cards for these SSIM's are formatted as shown in Figure 9. Field one of the SI module cards contains, in floating point format, the input voltage range of the SSIM. The input impedance of the SSIM is placed in the second field in multiplier field format. The third field specifies the quantization provided by the SSIM. The final field holds the number of channels per module. The previous two fields are integer format.

(5) Passive Discrete Output (PDO). Discrete signal sinks which require a change in impedance level to represent logic one and zero are interfaced by the PDO SSIM's. The module cards for these SSIM's are shown in Figure 9. The first two fields contain the logic one and zero impedance levels (multiplier field format) of the SSIM. The ordering of these fields is unimportant, but for a logical understanding and use of the subroutine, the logic one and logic zero impedances should be in field 1 and field 2 respectively. Recorded in the third field (floating point) is the maximum current in milliamps which can be sunk per channel by the SSIM. The number of channels per module is recorded in integer format in the fourth field.

(6) Active Discrete Output (ADO). ADO SSIM's provide two distinct voltage levels representing logic one and zero to passive original sinks. The format of these module cards is shown in Figure 9. The first two fields contain in any order, the nominal logic one and zero voltage levels (floating point) provided by the SSIM. To more perfectly understand the operation of this routine (ADO), the convention of field one, always containing the nominal logic one voltage, and field two, always containing the nominal logic zero voltage, should be used. Field three and four indicate the source impedance of the SSIM (multiplier format) in each of its logic states. The impedance in field three is at the logic level of field one, likewise field two and four. The fifth field holds the number of channels per module in integer format.



(7) Analog Output (AO). All analog signal sinks are interfaced by the AO SSIM's. The format of the AO module card is shown in Figure 9. The upper and lower voltage bounds of the SSIM are placed respectively into the first two fields in floating point format. The source impedance of the SSIM is recorded in the third field in multiplier field format. The quantization in bits provided by the SSIM is placed in integer format following the source impedance. The following field specifies the signal type (AC, DC or blank) provided by the SSIM following the convention presented in the AI SSIM discussion. The sixth field identifies the number of channels per module in integer format.

### (3) System File

The signal flow characteristics of a given system when recorded on tape for input to SIAAP are designated as a "SYSTEM FILE". Selection of the desired system file from the multiple files which may be recorded on one tape is accomplished through the "SYSTEM" card. The SYSTEM card contains the word "SYSTEM" in columns 1 through 6 followed by a system title of up to four characters in columns 8 through 11 as shown in Figure 10.

Column Number	1	2	3	4	5	6	7	8	9	10	11
	S	Y	S	T	E	M		X	X	X	X



  
System Title

Figure 10. SYSTEM CARD FORMAT


If the system called for by the SYSTEM card cannot be located on the system tape file, a diagnostic will be printed and the program terminated.

### (4) Output Option Deck

When the three input decks described above have been input, via the card reader, the analysis is begun. Upon completion of the analysis, the desired output options are printed under control of the

output option card deck. The available option control cards are shown in Figure 11.

Column Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	M	S	T		S	U	M	M	A	R	Y					
	M	S	T		B	Y		T	E	R	M					
	M	S	T		B	Y		M	O	D						
	M	O	D		S	U	M	M	A	R	Y		(	R	X	)
	M	O	D		B	Y		T	E	R	M		(	R	X	)
	M	O	D		B	Y		T	Y	P	E		(	R	X	)
	U	F	.		S	U	M	M	A	R	Y		(	R	X	)
	U	F	.		B	Y		T	E	R	M		(	R	X	)
	U	F	.		B	Y		M	O	D			(	R	X	)



Redundancy Level (1-9)

Figure 11. OUTPUT OPTION CONTROL CARDS

At the end of an analysis run, SIAAP has generated a matrix of signal count by module type and terminal number. This matrix is referred to as the MST (Module, Signal, Terminal) matrix.

Selection of the "MST SUMMARY" output provides a table as shown in Figure 12. This table totals the signals which have been interfaced by the defined SSIM file and provides a breakdown of the distribution of these signals by module.

"MST BY TERM" provides a summary, by terminal, of the count of interfaced signals in the format as shown in Figure 13.

SIGNAL COUNT SUMMARY							
SSIM	PDI	ADI	AI	SI	PDU	ADU	AU
1	202	206	68	19	302	264	21
2	483	0	51	49	0	512	28
3	0	0	14	0	0	0	19
4	0	0	14	0	0	0	13
5	0	0	0	0	0	0	35
TOTAL	745	206	147	68	302	776	116
TOTAL SIGNALS 2360							

Figure 12. "MST SUMMARY" OUTPUT EXAMPLE

TERMINAL NUMBER 1 SIGNAL COUNT							
SSIM	PDI	ADI	AI	SI	PDU	ADU	AU
1	80	31	18	19	90	47	15
2	113	0	7	0	0	134	2
3	0	0	0	0	0	0	0
4	0	0	4	0	0	0	5
5	0	0	0	0	0	0	13
TOTAL	193	31	29	19	90	181	41
TOTAL SIGNALS 584							

Figure 13. "MST BY TERM" OUTPUT EXAMPLE

A detailed summary of the number of signals interfaced by each module is provided by the "MST BY MOD" option. Individual tables are printed for each of the seven major SSIM types. Heading the columns of the tables (reference Figure 14) are the module numbers assigned at the beginning of the analysis run in the reference list of SSIM characteristics. The rows are headed by terminal number.

Use of the "MOD SUMMARY (RX)" option provides an output as shown in Figure 15. Summarized in this table are the quantities of each particular SSIM type required. Redundancy levels from one to nine can be specified in column 15 of this card. The resulting module count is that required to provide N independent paths for each signal where N is the redundancy level and each independent path for one signal is on a different SSIM.



PDI SSIM SIGNAL COUNT						
SSIM TERM	1	2	3	4	5	TOTAL
1	80	113	0	0	0	193
2	3	79	0	0	0	82
3	19	30	0	0	0	49
4	143	132	0	0	0	275
5	9	46	0	0	0	55
6	7	65	0	0	0	72
7	1	18	0	0	0	19
TOTAL	262	483	0	0	0	745

Figure 14. "MST BY MOD" OUTPUT EXAMPLE

## MODULE COUNT SUMMARY, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	POC	ADD	AO
1	24	19	12	5	26	21	8
2	34	0	13	15	0	36	13
3	0	0	8	0	0	0	10
4	0	0	10	0	0	0	6
5	0	0	0	0	0	0	14
TOTAL	58	19	43	20	26	57	51
TOTAL MODULES	274						

Figure 15. "MOD SUMMARY (R2)" OUTPUT EXAMPLE

If a redundancy level is not specified, the level one is assumed. This method of redundancy specification is provided by all of the remaining output option cards.

"MOD BY TERM" provides an output similar to the MST BY TERM output with the substitution of module count for signal count. An example of this output is shown in Figure 16.

"MOD BY TYPE" outputs a detailed tabulation of the required modules by the seven major SSIM types. Figure 17 shows the format of these outputs.

A measure of the effectiveness with which the required SSIM hardware is utilized is provided by the utilization factor (UF) output options.

TERMINAL NUMBER 1 MODULE COUNT, REDUNDANCY LEVEL 1							
SSIM	PDI	ADI	AI	SI	PLG	ADO	AO
1	3	1	1	3	3	2	2
2	4	0	1	0	2	5	1
3	0	0	0	0	0	0	1
4	0	0	1	0	0	0	1
5	0	0	0	0	0	0	2
TOTAL	7	1	3	3	3	7	7
TOTAL MODULES		21					

Figure 16. "MOD BY TERM (R1)" OUTPUT EXAMPLE

PDI SSIM MODULE COUNT, REDUNDANCY LEVEL 2						
SSIM TERM	1	2	3	4	5	TOTAL
1	5	6	0	0	0	13
2	2	5	0	0	0	7
3	2	2	0	0	0	4
4	9	9	0	0	0	18
5	2	3	0	0	0	5
6	2	5	0	0	0	7
7	2	2	0	0	0	4
TOTAL	24	34	0	0	0	58

Figure 17. "MOD BY TYPE (R2)" OUTPUT EXAMPLE

Utilization factor is defined as the ratio of required channels to available channels. For example, a module that is capable of interfacing eight signals and has six of its channels used achieves a UF of .75.

Three UF options of SUMMARY, BY TERM and BY MOD are provided as shown in Figures 18, 19, and 20, respectively. As with the module options, redundancy levels from one to nine may be specified.

Note that the totals drawn across rows and columns of the UF outputs are not direct numerical sums of the individual entries but are the ratios of the sum of required channels to the sum of available channels.



## UTILIZATION FACTOR SUMMARY, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.68	.68	.35	.95	.73	.79	.66
2	.89	.00	.49	.42	.00	.89	.54
3	.00	.00	.11	.00	.00	.00	.48
4	.00	.00	.18	.00	.00	.00	.54
5	.00	.00	.00	.00	.00	.00	.63
TOTAL	.80	.68	.29	.85	.73	.65	.57
OVERALL UTILIZATION FACTOR .70							

Figure 18. "UF SUMMARY (R2)" OUTPUT EXAMPLE

## TERMINAL NUMBER 1 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.83	.97	.56	.79	.94	.73	.94
2	.88	.00	.44	.00	.00	.84	.25
3	.00	.00	.00	.00	.00	.00	.75
4	.00	.00	.25	.00	.00	.00	.63
5	.00	.00	.00	.00	.00	.00	.81
TOTAL	.86	.97	.45	.79	.94	.81	.73
TERMINAL UTILIZATION FACTOR .81							

Figure 19. "UF BY TERM (R1)" OUTPUT EXAMPLE

## PDI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	1	2	3	4	5	TOTAL
TERM						
1	.83	.88	.00	.00	.00	.86
2	.09	.82	.00	.00	.00	.64
3	.59	.94	.00	.00	.00	.77
4	.89	.83	.00	.00	.00	.86
5	.28	.72	.00	.00	.00	.57
6	.22	.68	.00	.00	.00	.56
7	.03	.56	.00	.00	.00	.30
TOTAL	.63	.79	.00	.00	.00	.73

Figure 20. "UF BY MOD (R1)" OUTPUT EXAMPLE

An additional control card which can be placed in the output option deck is the "PAUSE" card formatted as shown in Figure 21. The PAUSE card may be placed at any point within the output option deck and causes a pause to be executed. In this manner, the program can be halted and preliminary evaluations made to determine the desirability of generating additional output, making an additional analysis run or ending the program.

Column Number	1	2	3	4	5
	P	A	U	S	E

Figure 21. PAUSE CARD FORMAT

Additional analyses can be performed through the use of the "MODIFY" card. This card is formatted as shown in Figure 22. The MODIFY card specifies how many of the three major inputs (SSIM FILE, LRU/RT FILE, and SYSTEM FILE) are to be redefined before the new analysis is to be begun. For example, if only the LRU/RT FILE is to be modified, a "1" would be placed in column 8 of the MODIFY card and the modified LRU/RT FILE deck would directly follow. When this file has been entered, the analysis would begin using the newly defined LRU/RT assignments and the SSIM and SYSTEM FILE definitions of the previous run. If modification other than 1, 2 or 3 are specified, a diagnostic is printed and the run is terminated.

Column Number	1	2	3	4	5	6	7	8
	M	O	D	I	F	Y		X



  
 Number (1,2 or 3) of  
 Input Decks to be  
 Modified

Figure 22. MODIFY CARD FORMAT



The final control card which may appear in the output option deck is the "END" card. This card is formatted as shown in Figure 23. When placed in the output option deck, this card causes the program to be terminated.

Column Number	1	2	3
	E	N	D

Figure 23. END CARD FORMAT

#### b. Operational Description

SIAAP has been organized, wherever possible, in a manner which minimizes its built in constraints and maximizes the degree of flexibility which the user can exercise in its application. Additionally, an effort has been made to structure SIAAP in a manner which allows modification to the program to be made with a minimum of effort.

##### (1) General

SIAAP is divided into three major segments. These segments are: 1) Data input, 2) Analysis and 3) Data Output. The data input section of SIAAP is flow charted in Figure 24. Three input decks must be loaded via the card reader before the analysis can begin. The variable "load" is set to 3 at the beginning of the run. Control cards are used to indicate the input deck to be loaded. Following loading of the deck, load is decremented by one. When load reaches zero, control is transferred to the analysis section. If one of the loading control cards cannot be recognized, a diagnostic is output and the program is terminated.

The second section of SIAAP analyzes the application of the specified SSIM's and RT definitions to the defined signal system. The flow chart for this section is shown on page 22 as Figure 25. Each signal of the signal list is recorded on tape for input to SIAAP as two records.

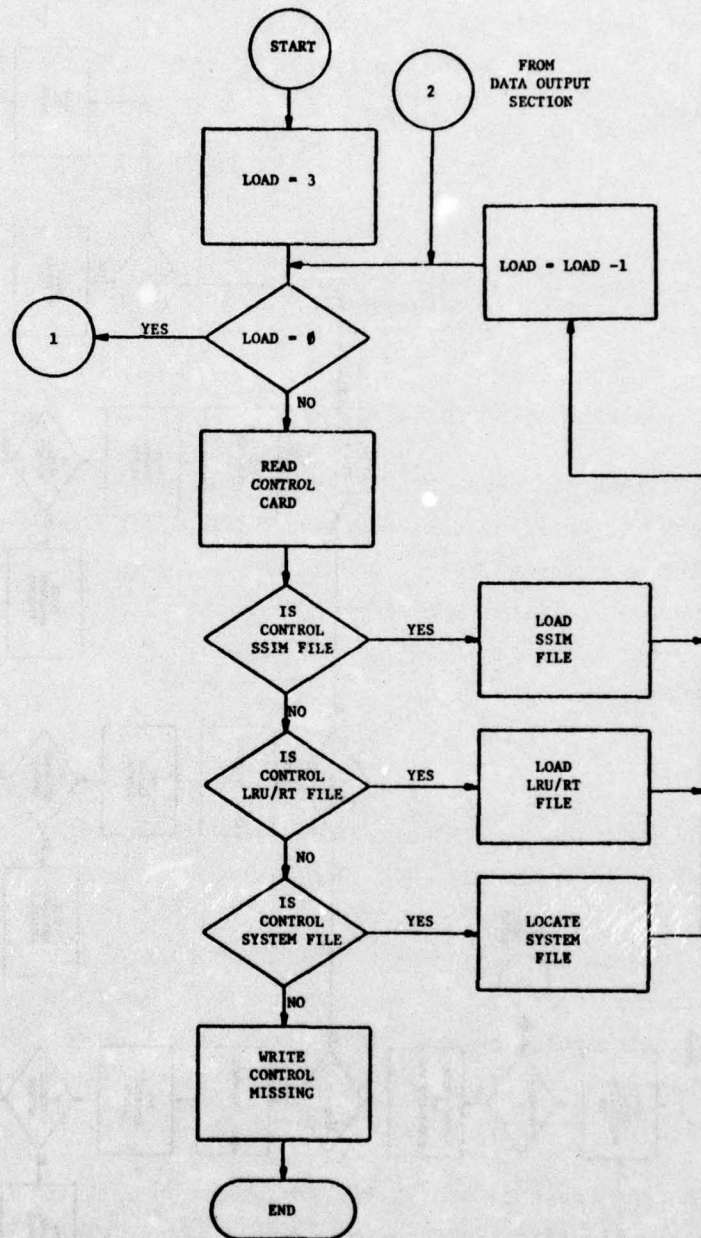


Figure 24. SIAAP DATA INPUT SECTION FLOW CHART



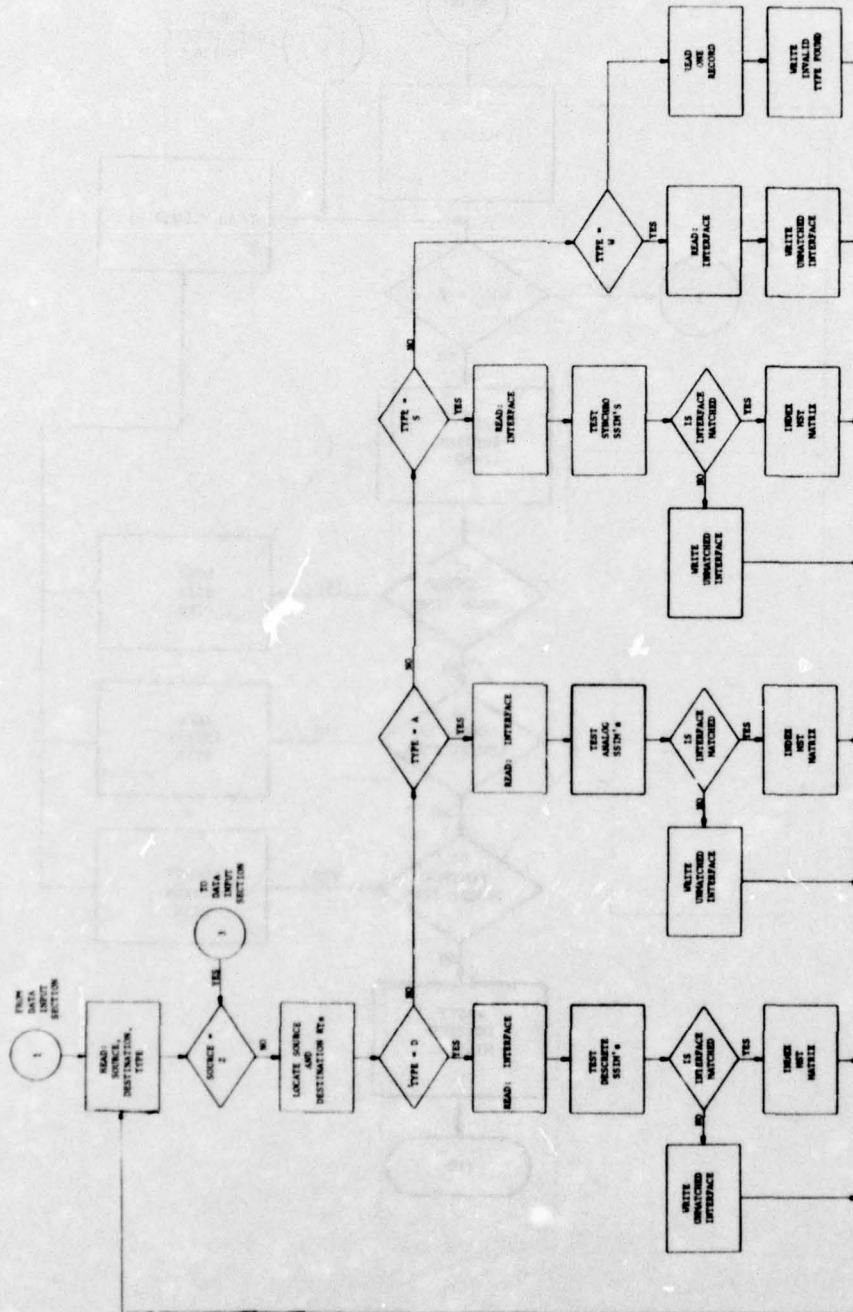


Figure 25 SIAAP ANALYSIS SECTION FLOW CHART

The first record contains the source, destinations, frequency and type of signal. The second record contains the electrical interface characteristics, both input and output of the signal. When the first record is read, tests are made for end of file (the letter Z in column one) and signal frequency. If the end of file is found, control is transferred to the data output section. If in the frequency test a letter other than L is detected, the next record is skipped and the sequence is begun again. When the letter L is found in the frequency test, the RT assignments of the source and destination LRU's are determined. Next, the type of the signal (Discrete, Analog, Synchro or Dig/Num) is determined and the electrical interface characteristics contained on the second record are read in the corresponding format. The appropriate SSIM's are now applied to the signal's interface characteristics. If an SSIM is found which can interface the signal's characteristics, this signal is added to the MST matrix. If a match cannot be made, the signal's characteristics are output as unmatched. From this point, the sequence is begun again.

The data output section of SIAAP is flow charted in Figure 26. The first step in this section is an accumulation of totals across the MST matrix. When this has been done, an output option control card is read. This card is tested to determine the option which has been requested. If the option is pause, the program halts. When restarted, the first action is to read a new output option card. Selection of the modify option causes load to be set to the number (1, 2 or 3) of input decks to be reloaded and control is transferred to the data input section of SIAAP. If one of the MST options is selected, the desired output is printed and a new option card is read. If none of the above options are selected, a matrix of the module requirements is generated from the MST matrix. At this point, the requested option is again tested. If one of the module options is selected, the desired output is printed and the next option card is read. If the selected option is not MOD, the utilization factor matrix is generated from the MOD and MST matrices. The desired option is again tested. If utilization factor is requested, the desired output is printed. If UF is not selected, the run is terminated.



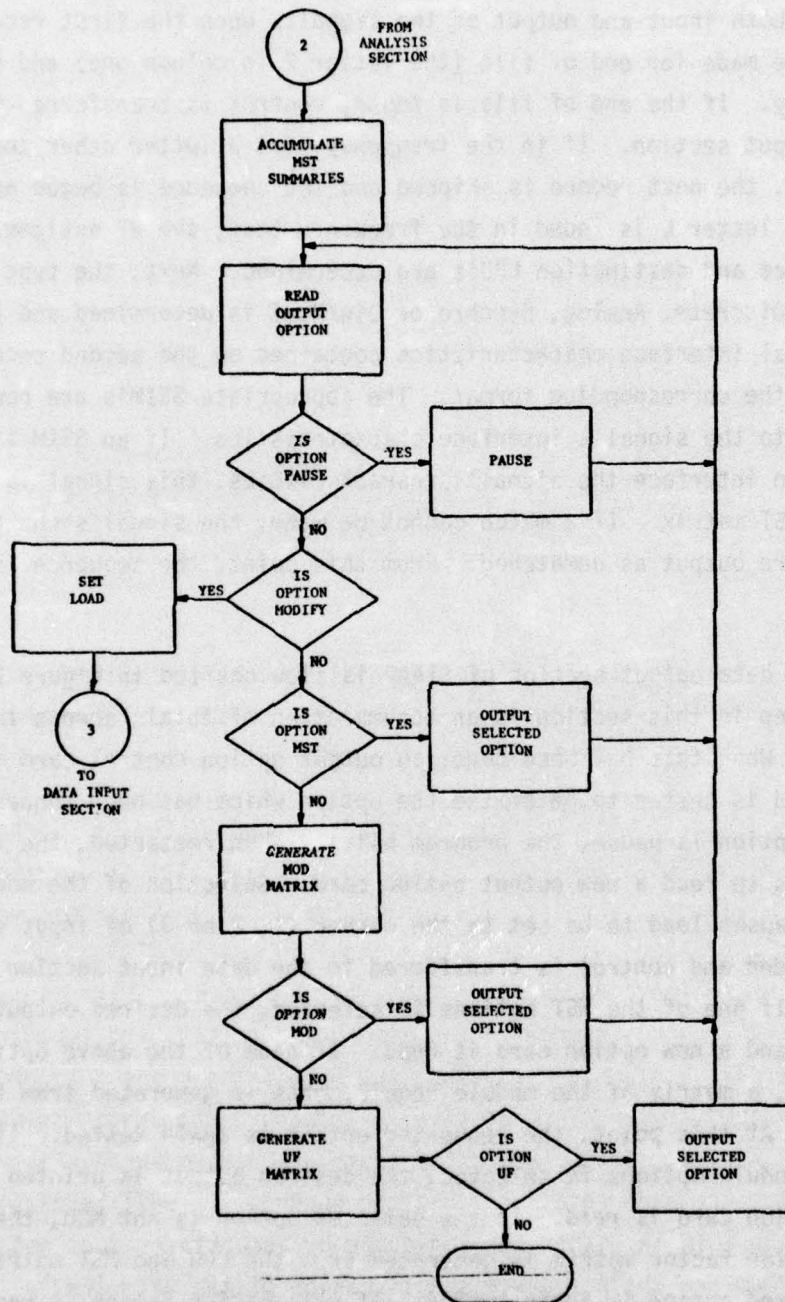


Figure 26. SIAAP DATA OUTPUT SECTION FLOW CHART

## (2) Interface Tests

The logic required to determine the ability of a SSIM to interface a given signal is contained in a series of function subprograms. A separate subprogram has been used for each of the seven different major SSIM types which have been identified. In this way, the constraints for matching signals to SSIM's have been removed from the main body of the program, thus allowing modification of these constraints with a minimum of effort. The interface test programs are written as functions which input the various electrical characteristics of the SSIM and signal and return a value of either 1, 0 or -1. The value one indicates a match has not yet been made; however, there are additional SSIM's to be tried. Zero indicates that the present SSIM provides the required interface. Minus one indicates that none of the specified SSIM's can provide the required interface.

### (a) Subprogram ITPDI

Interface tests of passive discrete input SSIM's are performed by the ITPDI subprogram. The flow chart for this section is shown on page 26 as Figure 27.

The voltage levels developed at the SSIM input by the signal in the logic one (LOV') and zero (LZV') states is determined by voltage division. The signal's source impedance in the logic one state (LOZ) is used along with the SSIM's input impedance (IZ) to determine LOV' from the logic one voltage (LOV) of the source. Likewise, LZV' is calculated from the source's logic zero voltage (LZV) and impedance (LZZ). LOV' and LZV' are compared against the SSIM's logic one and zero threshold voltages (LOTV and LZTV respectively) to assure the proper stimulation can be achieved. If the above two tests are passed successfully, two more tests are made to assure that the power which will be dissipated within the SSIM in either the logic one or zero states does not exceed the maximum per channel power specification of the SSIM (PWR).



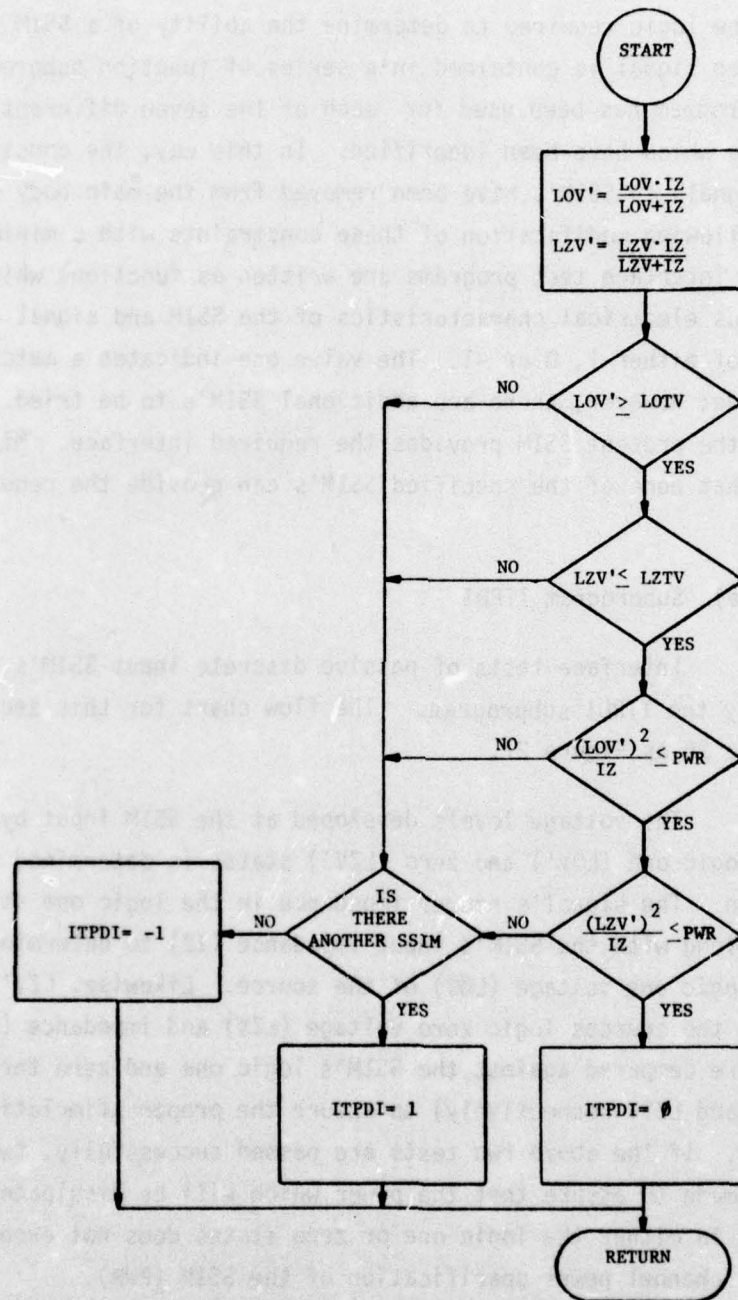


FIGURE 27. ITPDI SUBPROGRAM FLOW CHART

(b) Subprogram ITADI

Testing of the ADI SSIM's ability to interface a given signal is performed by the ITADI subprogram flow charted in Figure 28. Only two simple tests are performed on the PDI SSIM's because the input is assumed to be completely passive representing logic one and zero with two impedance levels (LOZ and LZZ respectively). The SSIM is specified by two impedance thresholds. LOZ must be equal to or greater than the logic one impedance threshold (LOTZ) and LZZ must be less than or equal to the logic zero impedance threshold (LZZT) for the signal to be matched.

(c) Subprogram ITAI

The tests performed by the ITAI subprogram are flow charted in Figure 29. The initial test performed by ITAI determines if the SSIM has been specified to handle the given signal type (AC or DC). If the SSIM type is not specified, it is assumed that either AC or DC signals may be interfaced. The signal's voltage range (SVR) and offset voltage (SOV) are multiplied by the specified gain to give SVR' and SOV'. Additionally, voltage division between the signal's source impedance (SZ) and the SSIM's input impedance (IZ) is used to determine the maximum (Up) and minimum (Down) voltage which the signal will impress at the SSIM input. The maximum voltage presented to the SSIM by the source is compared to the SSIM's conversion range upper bound (CRUB). If this bound is not exceeded, the next test compares the minimum source voltage to the lower bound (CRLB) of the SSIM's conversion range. In this test, Down must not be less than CRLB. The next test determines if the required quantization can be achieved. This is accomplished by comparing the SSIM's resolution (volts per least significant bit (V/LSB) to the requirement of the signal at the specified gain. This test is passed if the signal's resolution requirement is equal to or coarser than that provided by the SSIM. A final test determines the signal attenuation which occurs at the SSIM input due to the voltage division between the signal's source impedance and SSIM's input impedance. It is required that this be no greater than the resolution required by the signal.



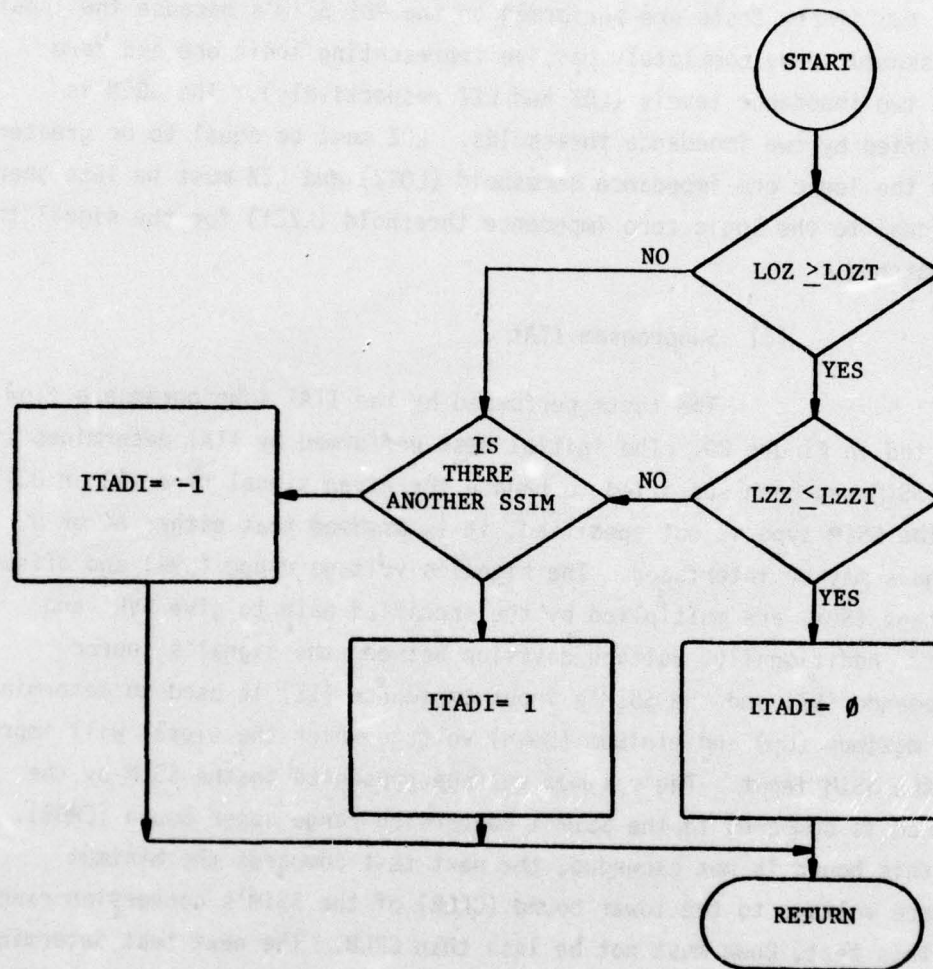


FIGURE 28. ITADI SUBPROGRAM FLOW CHART

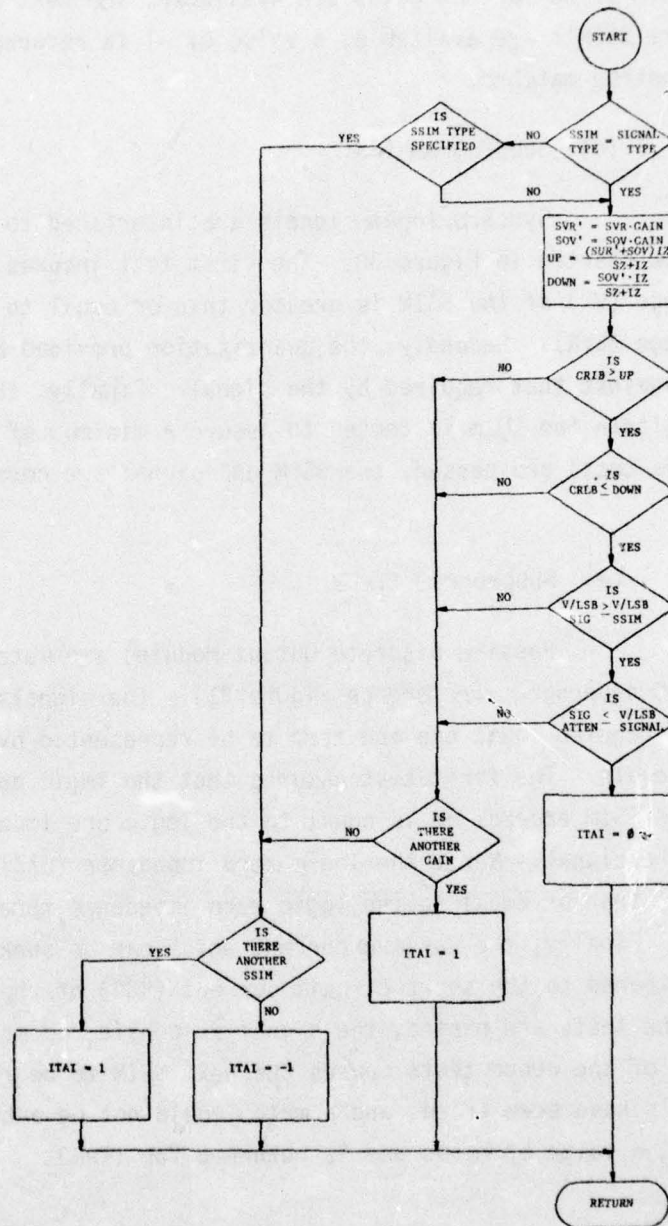


Figure 29. ITAI SUBPROGRAM FLOW CHART



If all these tests are passed, the signal is matched. Failure to pass any of these tests causes the next gain setting (if one is available) to be utilized. If no further gains are available, the next SSIM is used. When no more SSIM's are available, a value of -1 is returned and the signal cannot be matched.

(d) Subprogram ITSI

Synchro input signals are interfaced to SSIM's by ITSI as flow charted in Figure 30. The first test insures that the voltage range (VR) of the SSIM is greater than or equal to the signal voltage range (SVR). Secondly, the quantization provided by the SSIM is tested against that required by the signal. Finally, the current generated within the SSIM is tested to assure a minimum of 0.25 mA. If all three tests are passed, the SSIM and signal are considered matched.

(e) Subprogram ITPDO

Passive Discrete Output Modules are matched to signals by the ITPDO subprogram (reference Figure 31). The signals interfaced by this module require logic one and zero to be represented by two distinct impedance levels. The first test assures that the logic one impedance (LOZ) of the SSIM exceeds or is equal to the logic one impedance threshold (LOZT) of the signal. Next, the logic zero impedance (LZZ) of the SSIM must be less than or equal to the logic zero impedance threshold (LZZT) of the signal. Finally, the maximum current which can be sunk by the SSIM (MCS) is compared to the short circuit current (SCC) of the active load. If all of the tests are passed, the signal is considered matched. Failure to pass any of the above tests causes the next SSIM to be tested. If all of the SSIM's have been tried, and a match could not be achieved with any of them, a value of minus one is returned for ITPDO.

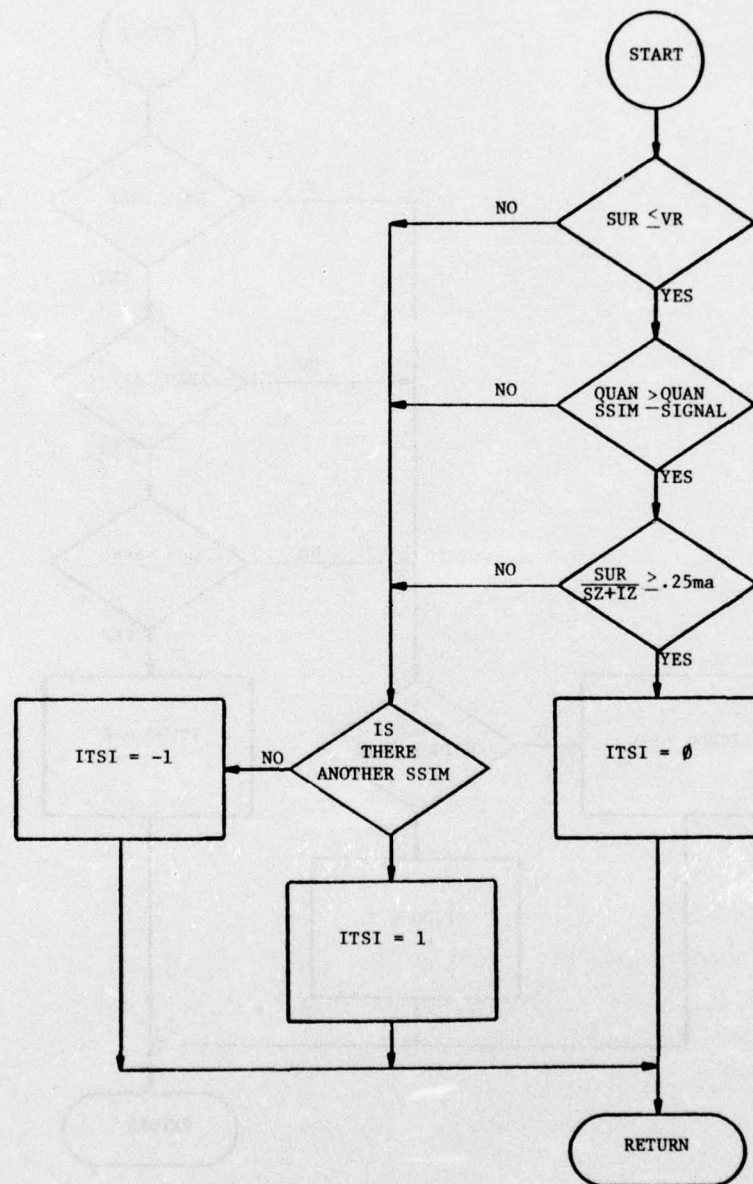


FIGURE 30. ITSI SUBPROGRAM FLOW CHART



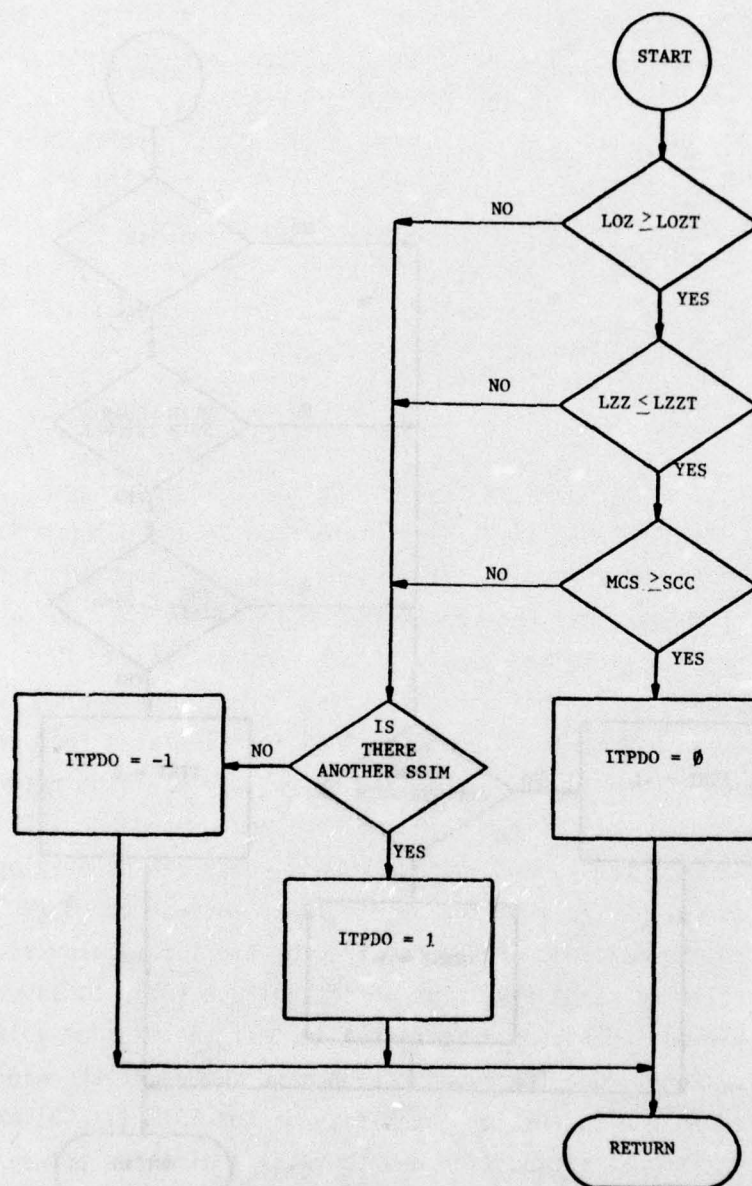


FIGURE 31. ITPDO SUBPROGRAM FLOW CHART

(f) Subprogram ITADO

There are two tests performed on the ADO SSIM's in determining their ability to provide a required interface. These tests are flow charted in Figure 32. The first test assures that the voltage which can be delivered at the load in the logic one state exceeds or equals the logic one threshold of the load. In this test, the attenuation of the logic one voltage (LOV) from the SSIM due to voltage division between the load impedance (LZ) and the logic one output impedance (LOZ) of the SSIM is considered. The second test assures that the logic zero voltage impressed upon the load equals or falls below the load's threshold.

(g) Subprogram ITAO

Figure 33 flow charts the ITAO subprogram. As with the Analog Input SSIM's the type of interface (AC or DC) provided by the AO SSIM can be specified. The signal type is compared to the SSIM's type and if they are alike, the tests continue. If they do not compare, the SSIM type is tested to see if it has been specified. No specification allows the SSIM to interface either signal type. The maximum voltage (Up) which can be impressed upon the load is calculated from the output voltage upper bound (VUB) of the SSIM by voltage division between the source impedance (SZ) of the SSIM and the input impedance (LZ) of the load. Likewise, the lowest voltage (Down) which can be developed at the load is calculated from the SSIM's lower voltage bound (VLB). Up is compared to the maximum voltage required by the load, calculated as the signal's voltage range (VR) plus offset voltage (OV), to assure that it can be achieved. Next, down is tested against the minimum voltage required by the load. The quantization requirement of the signal (V/LSB) is compared to the conversion capability of the SSIM (V/LSB) next. Finally, the signal attenuation due to voltage division between SZ and LZ is compared to the resolution required by the signal. If the signal has not been attenuated, more than the required resolution, the signal is considered interfaced.



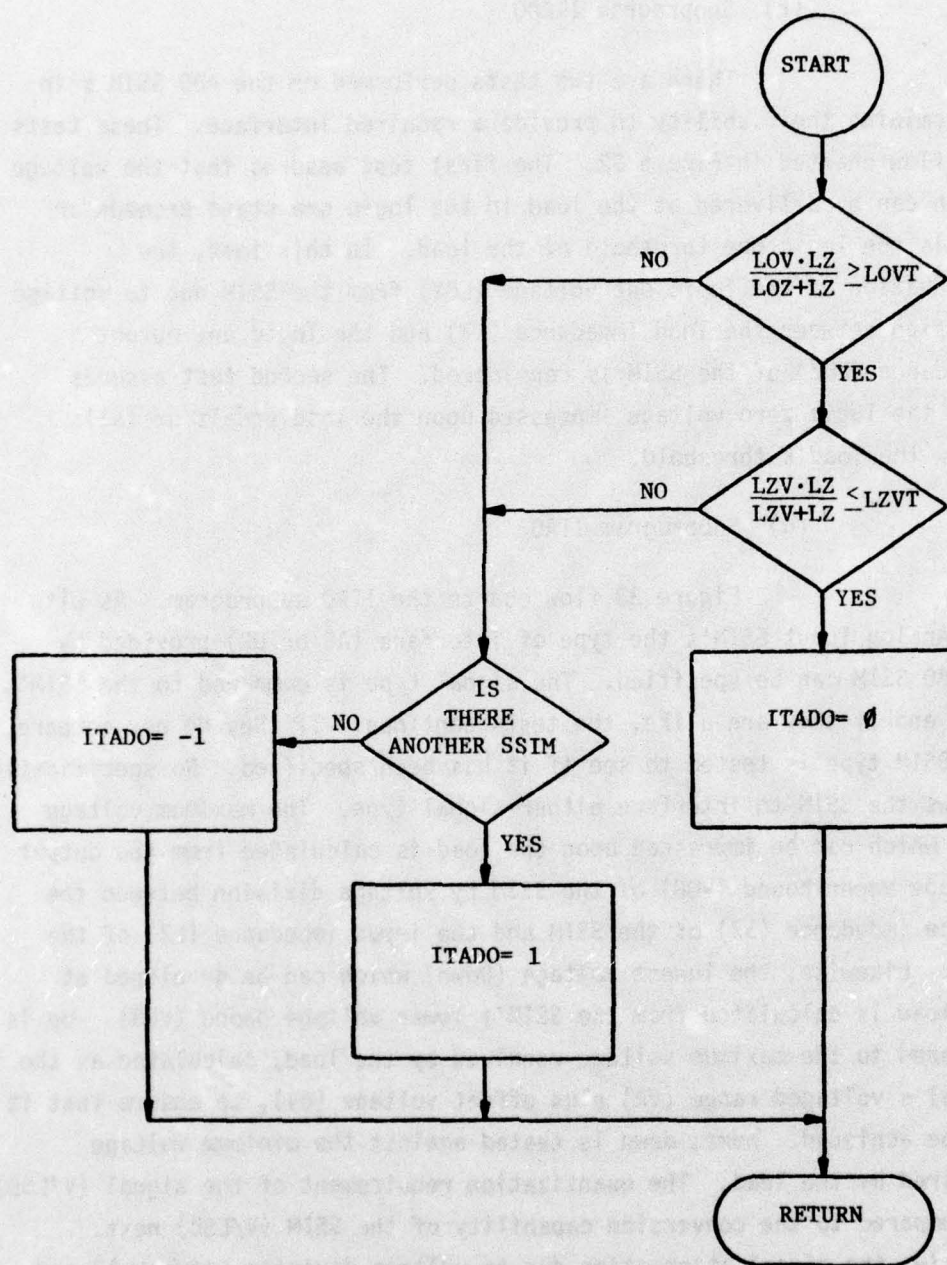


FIGURE 32. ITADO SUBPROGRAM FLOW CHART

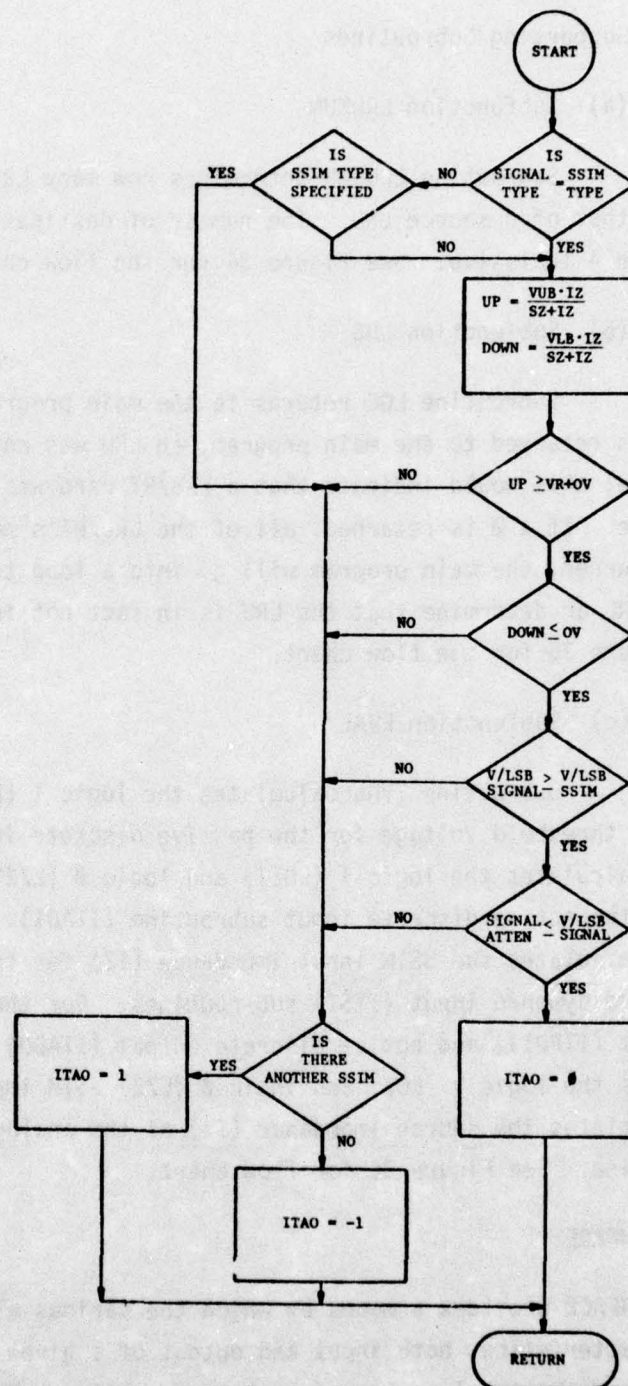


Figure 33. ITAO SUBPROGRAM FLOW CHART



(3) Supporting Subroutines

(a) Subfunction LRUNUM

Subroutine LRUNUM determines how many LRU destinations receive the output of a source LRU. The number of destination LRU's can range from 0 to 4 inclusive. See Figure 34 for the flow chart.

(b) Subfunction LOC

Subroutine LOC returns to the main program a 0, -1 or +1. If a -1 is returned to the main program, an LRU was not found in the LRU/RT file; this would indicate that a LRU/RT card was left out of the LRV/RT file. If a 0 is returned, all of the LRU/RT's were found. If a +1 is returned, the main program will go into a loop to either find the required LRU or determine that the LRU is in fact not in the LRU/RT deck. See Figure 35 for the flow chart.

(c) Subfunction EVAL

Subroutine EVAL calculates the logic 1 (LOTV) and logic 0 (LZTV) threshold voltage for the passive discrete input subroutine (ITPDI). It calculates the logic 1 (LOZT) and logic 0 (LZZT) threshold impedances of the active discrete input subroutine (ITADI). This subroutine also calculates the SSIM input impedance (IZ) for the analog input (ITAI) and synchro input (ITSI) sub-routines. For the passive discrete output (ITPDI), and active discrete output (ITADO) subroutines, EVAL calculates the logic 1 (LOZ) and logic 0 (LZZ) SSIM impedances. EVAL also calculates the source impedance (SZ) of the analog output (ITAO) subroutine. See Figure 36 for flow chart.

2. PROGRAM INFACE

Program INFACE provides a means by which the various electrical interface characteristics, both input and output of a given system may be identified and the total number of each type tallied. These summaries are by terminal, LRU and SSIM type. The data input logic is flow charted in Figure 37.

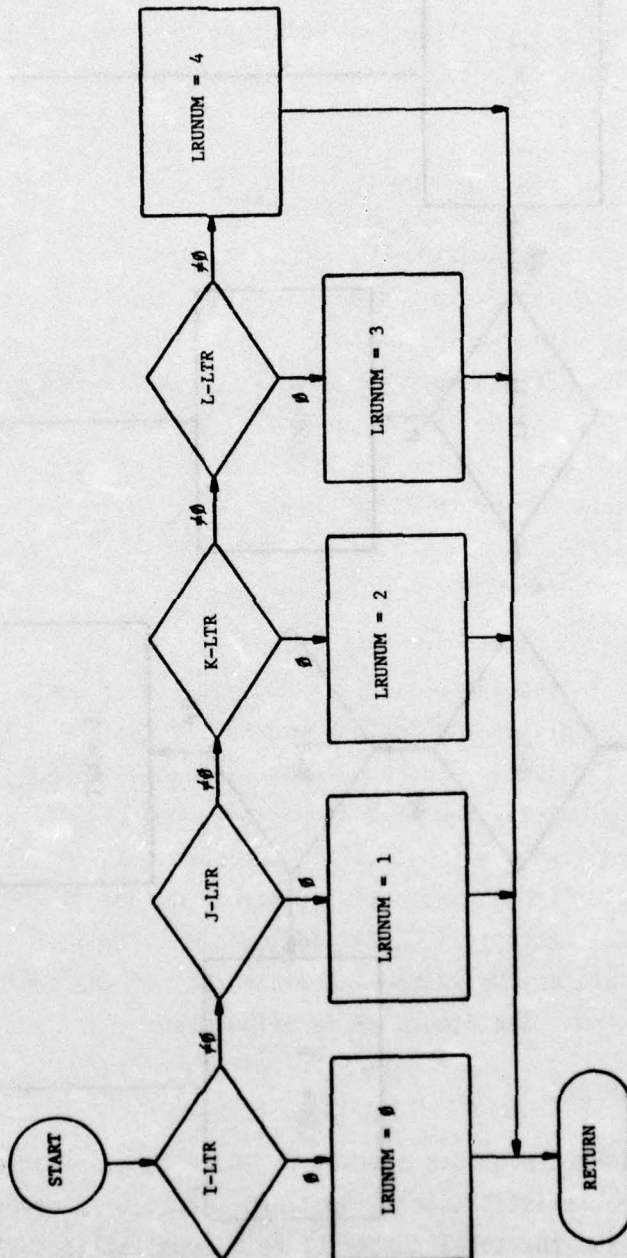


FIGURE 34. LRUNUM SUBPROGRAM FLOW CHART



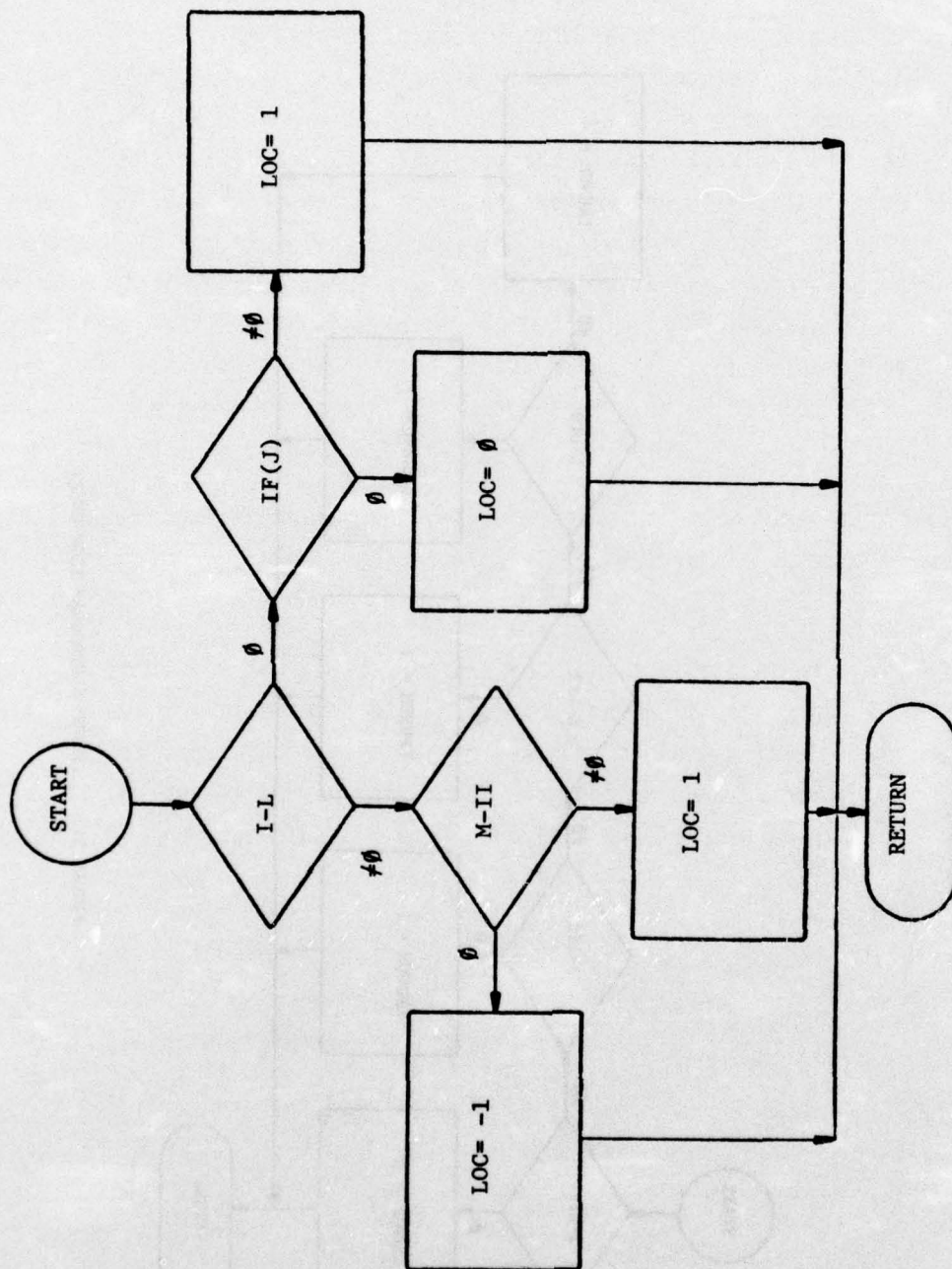


FIGURE 35. LOC SUBFUNCTION FLOW CHART

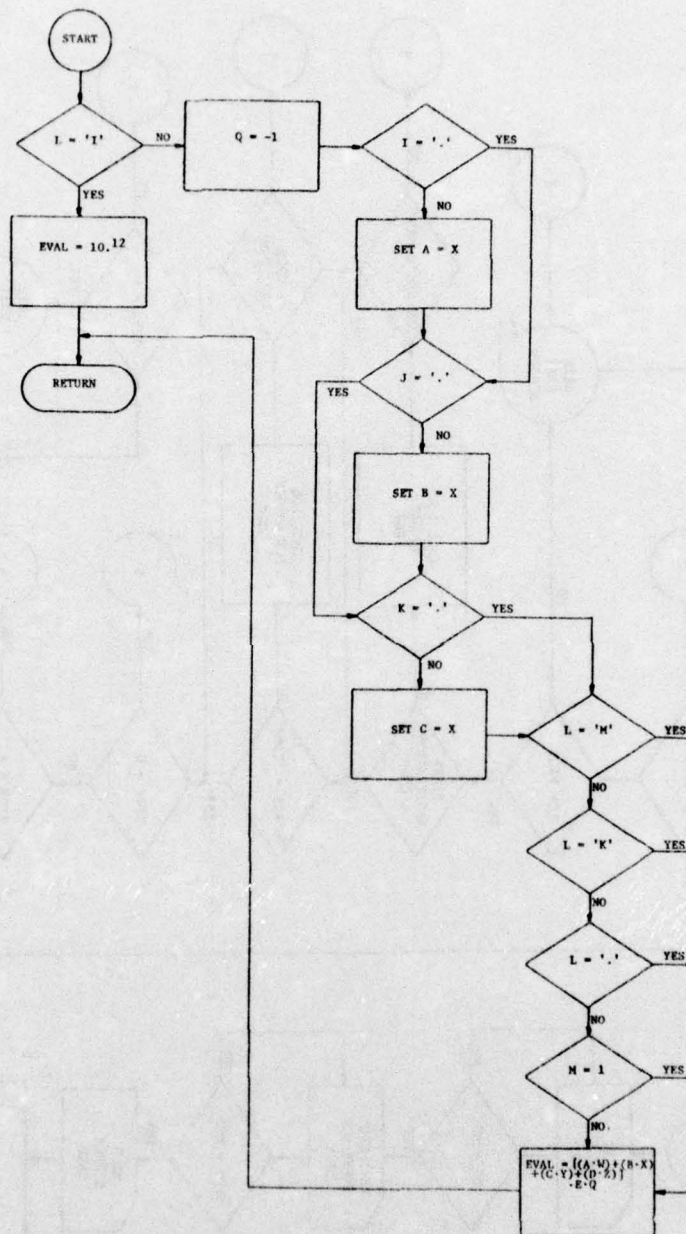


Figure 36, EVAL SUBFUNCTION FLOW CHART



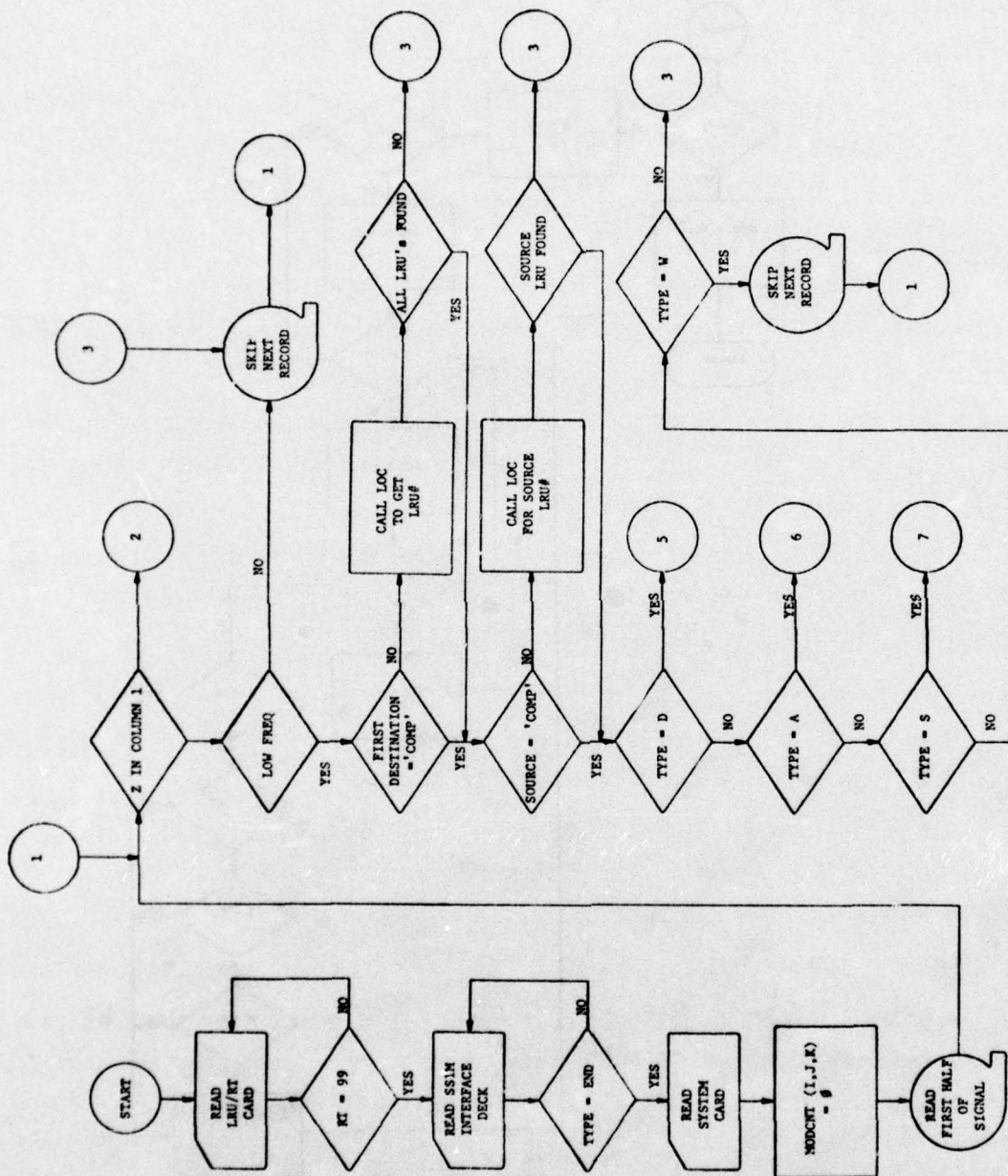


Figure 37. PROGRAM INFACE DATA INPUT FLOW CHART

The signal flow list of the system to be analyzed is input on mag tape; the list is called by the SYSTEM SYSA, SYSTEM SYSB or SYSTEM SYSC card in the data deck.

The data deck following INFACE is identical to that of SIAAP. (See Figure 1.) Refer to Appendix A, section 2, for a listing of Program INFACE and its associated subroutines. Refer to Figures 37, 38 and 39 for the flow charts for the main program of INFACE.

### 3. PROGRAM TAPEFILE

Program TAPEFILE (TAPFIL) provides the means of creating a properly formatted data tape. This data tape is common to both Programs SIAAP and INFACE.

This program formats a mag tape from a given data deck. The program's function is to convert an 80 column data card to two logical records on the mag tape, with columns 1 → 45 in the first logical records and columns 46 → 80 in the second logical record.

For further understanding, refer to Figure 40 for the program and data deck setup and Figure 41 and 42 for the flow charts of the program and Appendix A, section 3, for a program listing.

### 4. PROGRAM TAPEPRINT

Program TAPEPRINT (TAPPRNT) is the vehicle used to create a list or listings of any data stored on the mag tape.

Refer to Figure 43 for a flow chart of this program. See Appendix A, section 4, for a program listing and for the output from this program of System A, System B and System C.

### 5. PROGRAM SIGNALCOUNT

Program SIGNALCOUNT (SIGCNT) counts all of the records on the data tape associated with SIAAP and INFACE. This count is by system. For the tape that is used now, this count is: 2300 for System A, 1521 for System B and 1626 for System C.

See Appendix A, section 5, for a listing of this program and refer to Figure 44 for its flow chart.



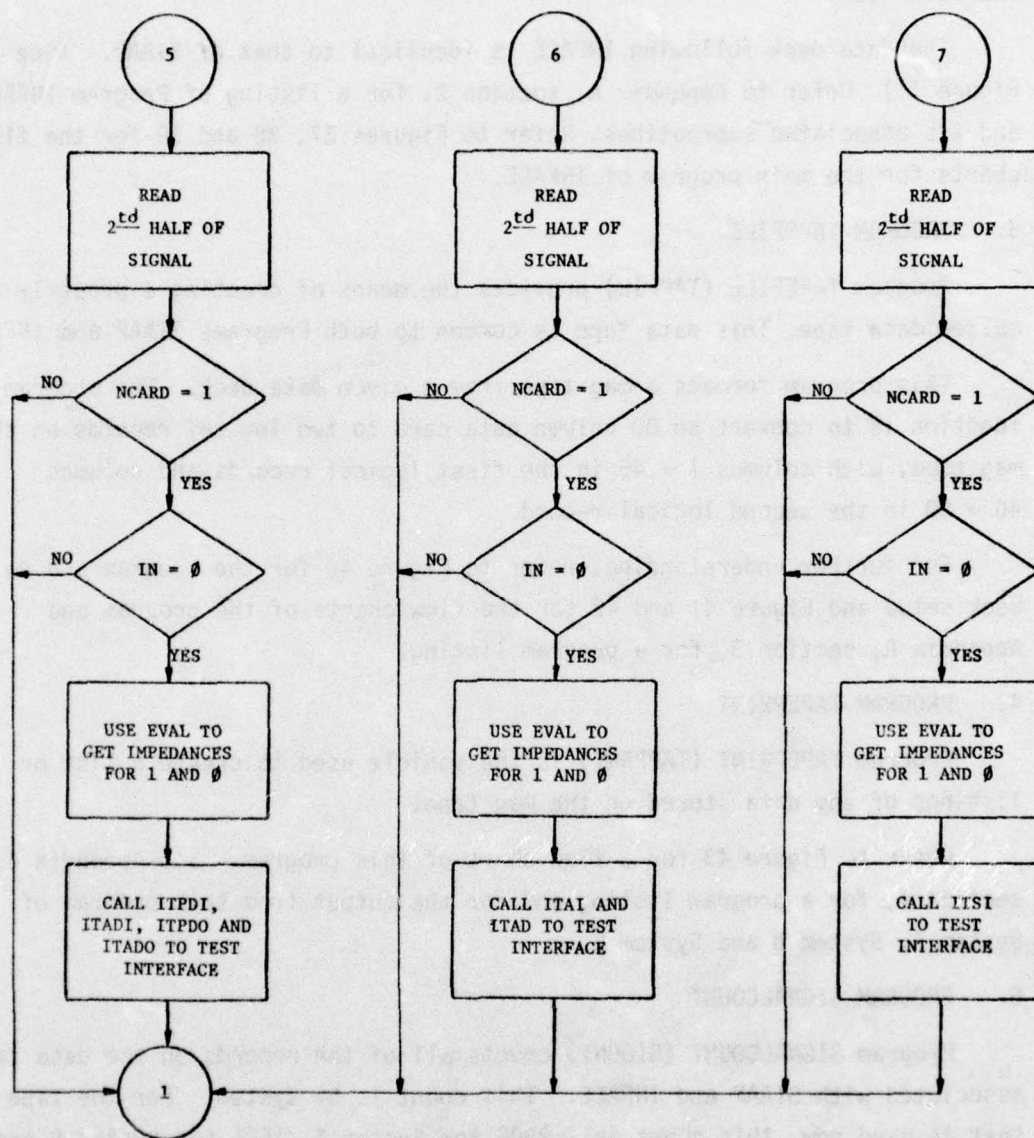


Figure 38. PROGRAM INFACE ANALYSIS SECTION FLOW CHART

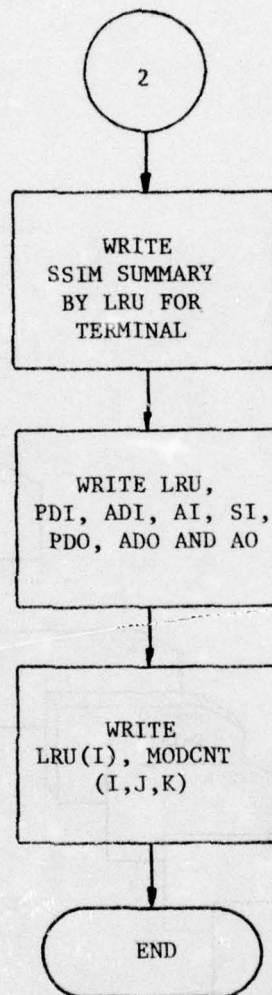


Figure 39. PROGRAM INFACE DATA OUTPUT SECTION FLOW CHART



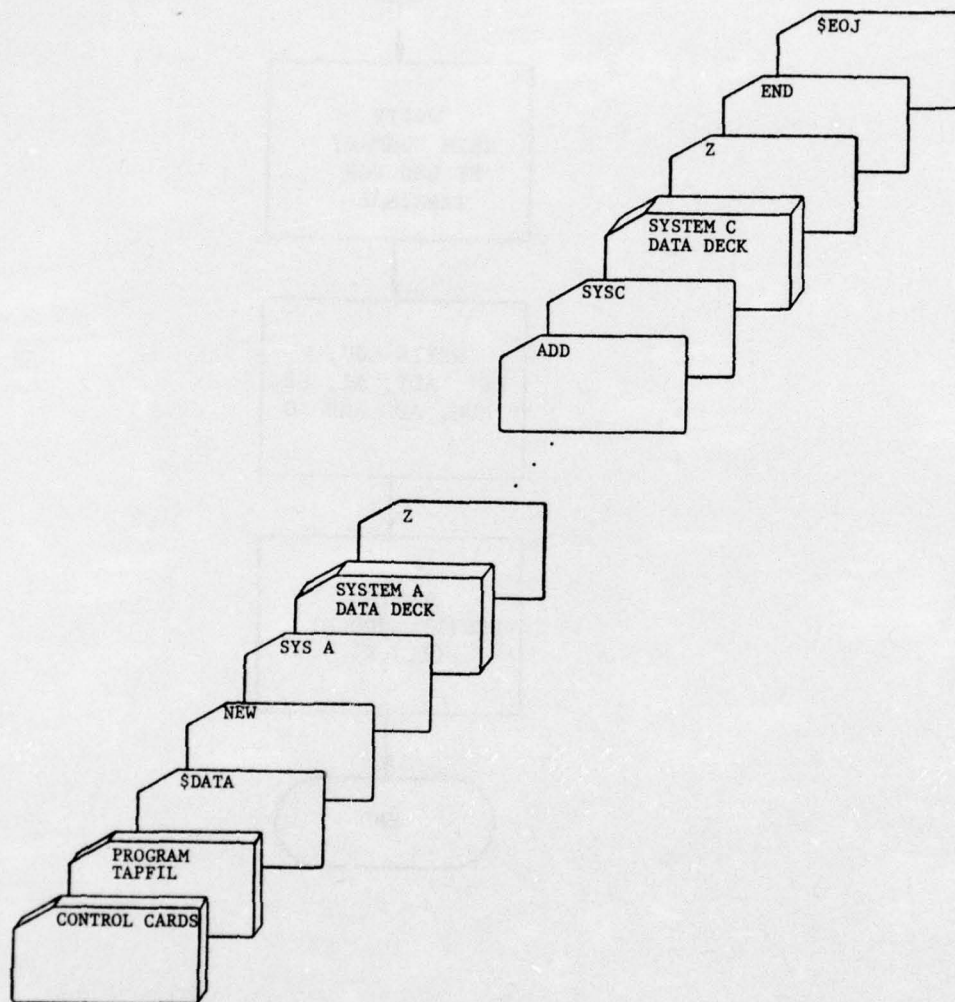


Figure 40. PROGRAM TAPFIL AND DATA DECK STRUCTURE

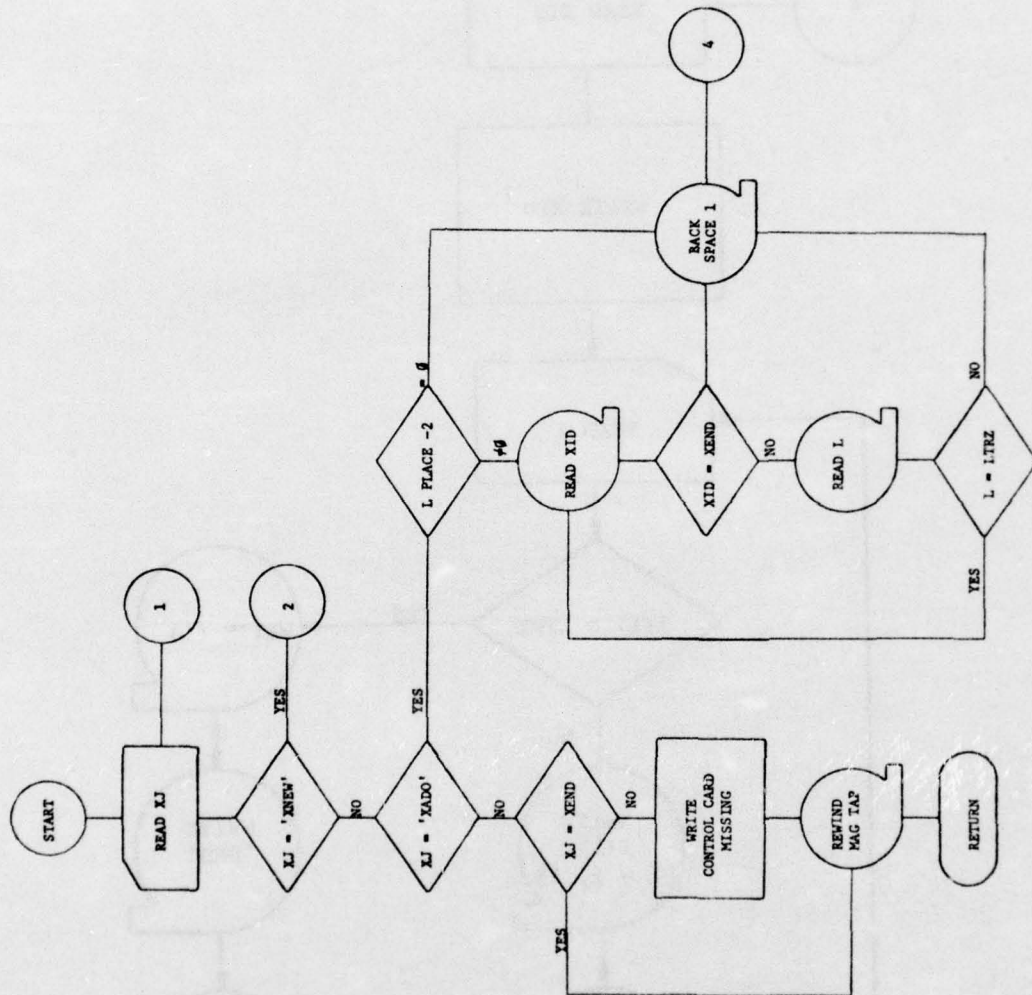


Figure 41. PROGRAM TAPFIL DATA INPUT FLOW CHART



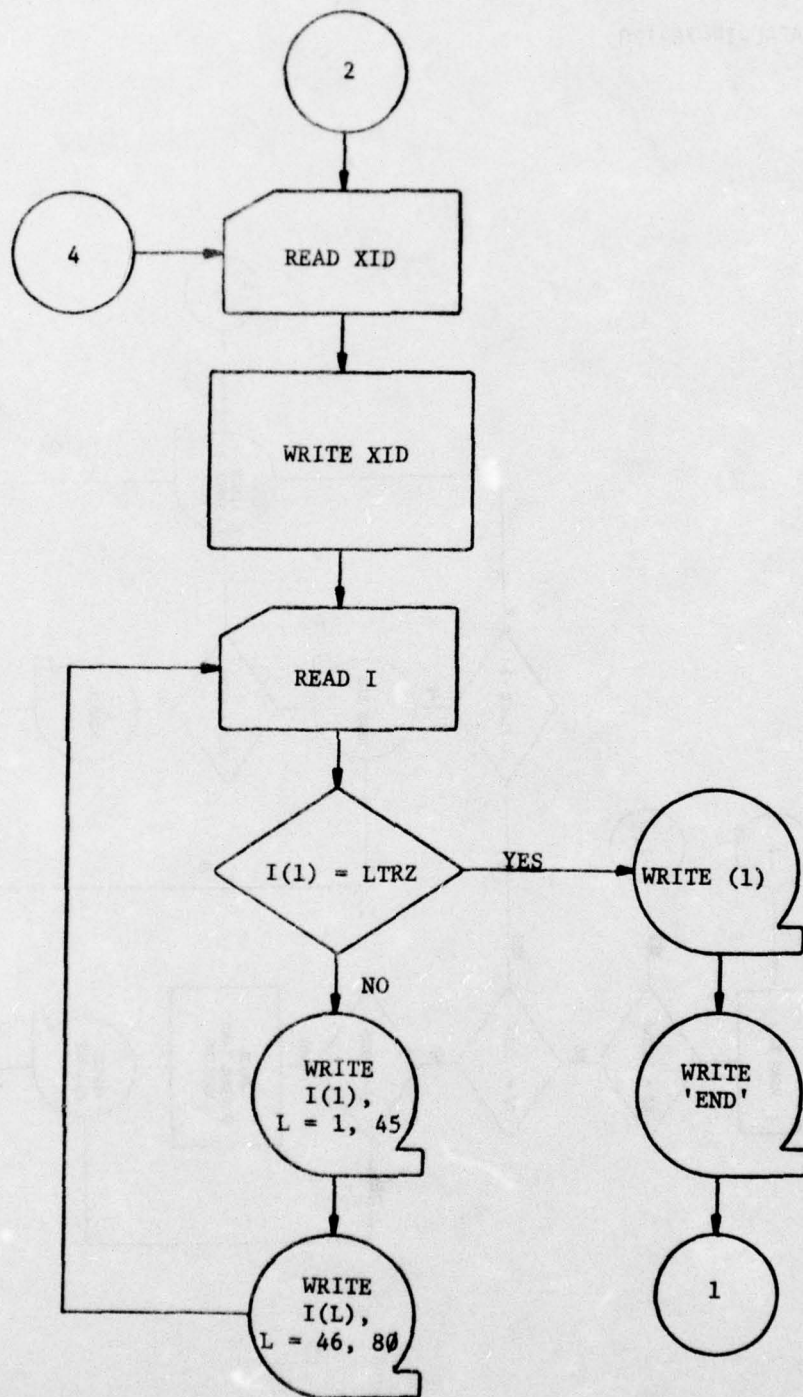


Figure 42. PROGRAM TAPPIL DATA OUTPUT SECTION FLOW CHART

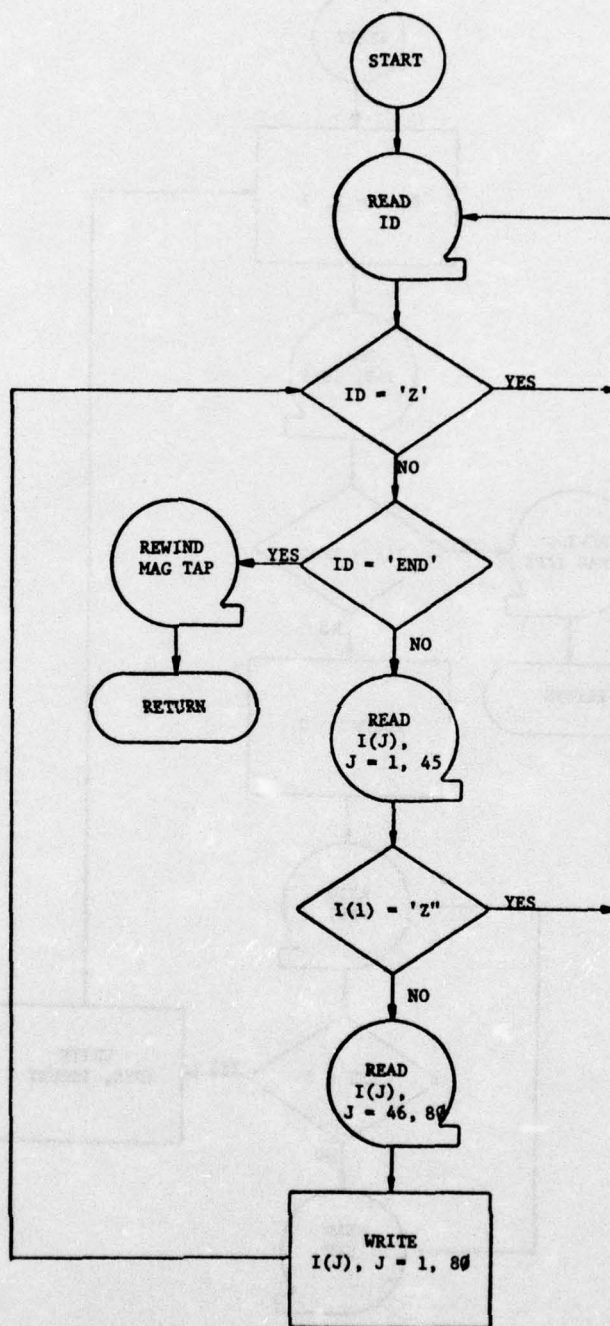


Figure 43. PROGRAM TAPRNT FLOW CHART



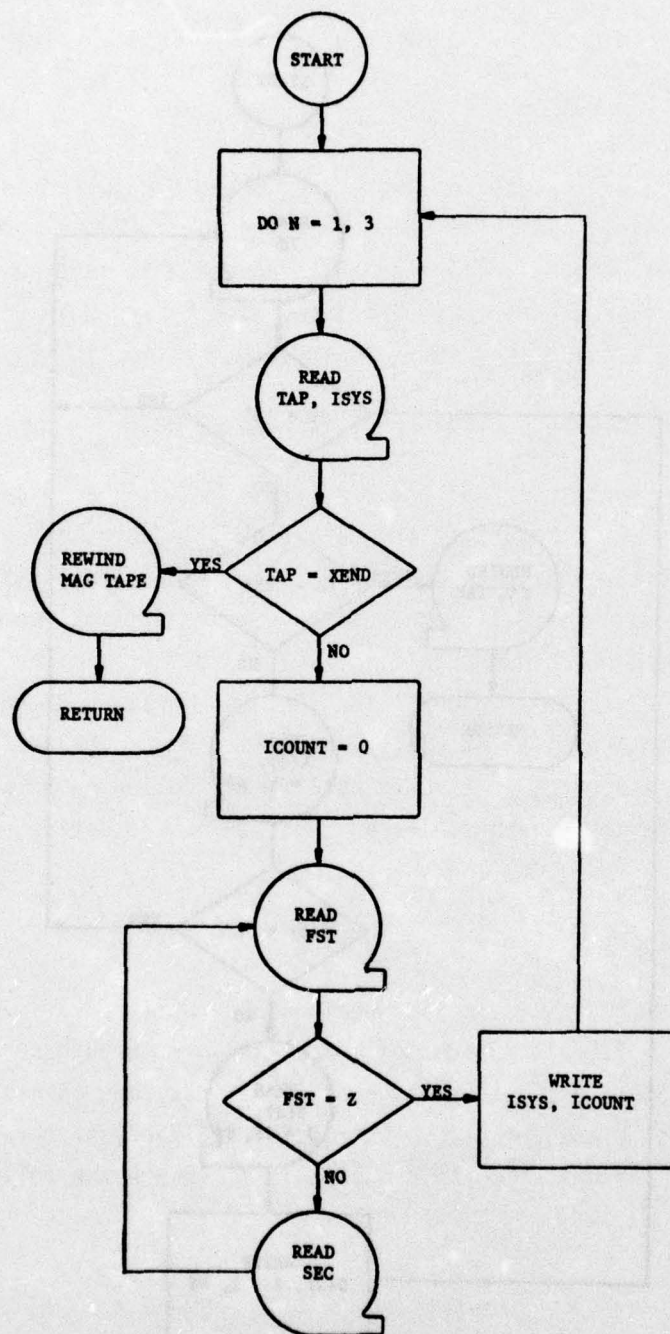


Figure 44. PROGRAM SIGCNT FLOW CHART

## SECTION III

## SIGNAL FLOW LISTINGS

The computer analysis of Systems A, B and C resulted in a series of computer listings; refer to Appendix B, section 1, 2 and 3 respectively. SIAAP analysis outputs are presented in Appendix B, section 4, 5 and 6 and INFACE Analysis Output are presented also by Appendix B, section 7, 8 and 9. The signal count is in Appendix B, section 10.

## STANDARD INTERFACE SIGNAL FLOW LISTING FORMAT

In order to list all of the required signals in an orderly and useful fashion, a standard interface signal flow worksheet was devised, as shown in Figure 45. The worksheet allows each signal with its essential characteristics to be written down in a format compatible with a standard 80-column data card. The format is similar to that of the Night AX avionics signal list (Ref 2). Primary changes include elimination of the Night AX mission phase field and the addition of a field for detailed electrical characteristics. The following is a description of the eight primary data fields as recorded on the data cards and shown on the (Figure 45) worksheet.

## a. Designation Field

The first field, called designation, utilizes a seven-character alphanumeric reference designator in columns one through seven to uniquely identify each signal source. The first four characters identify the individual Line Replaceable Unit (LRU) and the last three identify the individual signal. Contained in this field are the following:

TD  
└─┬─  
Subsystem  
Designator

2  
└─┬─  
Functional  
Unit

A  
└─┬─  
LRU

334  
└─┬─  
Connector  
and Pin



VEHICLE MODEL NO: FUNCTIONAL SUBSYSTEM ELEMENT:		STANDARD INTERFACE SIGNAL FLOW WORKSHEET		DOCUMENT CONTROL NO. _____ REVISION: _____ DATE: _____		
DESIGNATION	SIGNAL NAME	CLASSIFICATION	MIN. BITS	MIN. SAM. SEC.	ELECTRICAL INTERFACE	
					Inputs	Outputs
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12
13	13	13	13	13	13	13
14	14	14	14	14	14	14
15	15	15	15	15	15	15
16	16	16	16	16	16	16
17	17	17	17	17	17	17
18	18	18	18	18	18	18
19	19	19	19	19	19	19
20	20	20	20	20	20	20
21	21	21	21	21	21	21
22	22	22	22	22	22	22
23	23	23	23	23	23	23
24	24	24	24	24	24	24
25	25	25	25	25	25	25
26	26	26	26	26	26	26
27	27	27	27	27	27	27
28	28	28	28	28	28	28
29	29	29	29	29	29	29
30	30	30	30	30	30	30
31	31	31	31	31	31	31
32	32	32	32	32	32	32
33	33	33	33	33	33	33
34	34	34	34	34	34	34
35	35	35	35	35	35	35
36	36	36	36	36	36	36
37	37	37	37	37	37	37
38	38	38	38	38	38	38
39	39	39	39	39	39	39
40	40	40	40	40	40	40
41	41	41	41	41	41	41
42	42	42	42	42	42	42
43	43	43	43	43	43	43
44	44	44	44	44	44	44
45	45	45	45	45	45	45
46	46	46	46	46	46	46
47	47	47	47	47	47	47
48	48	48	48	48	48	48
49	49	49	49	49	49	49
50	50	50	50	50	50	50
51	51	51	51	51	51	51
52	52	52	52	52	52	52
53	53	53	53	53	53	53
54	54	54	54	54	54	54
55	55	55	55	55	55	55
56	56	56	56	56	56	56
57	57	57	57	57	57	57
58	58	58	58	58	58	58
59	59	59	59	59	59	59
60	60	60	60	60	60	60
61	61	61	61	61	61	61
62	62	62	62	62	62	62
63	63	63	63	63	63	63
64	64	64	64	64	64	64
65	65	65	65	65	65	65
66	66	66	66	66	66	66
67	67	67	67	67	67	67
68	68	68	68	68	68	68
69	69	69	69	69	69	69
70	70	70	70	70	70	70
71	71	71	71	71	71	71
72	72	72	72	72	72	72
73	73	73	73	73	73	73
74	74	74	74	74	74	74
75	75	75	75	75	75	75
76	76	76	76	76	76	76
77	77	77	77	77	77	77
78	78	78	78	78	78	78
79	79	79	79	79	79	79
80	80	80	80	80	80	80
81	81	81	81	81	81	81
82	82	82	82	82	82	82
83	83	83	83	83	83	83
84	84	84	84	84	84	84
85	85	85	85	85	85	85
86	86	86	86	86	86	86
87	87	87	87	87	87	87
88	88	88	88	88	88	88
89	89	89	89	89	89	89
90	90	90	90	90	90	90
91	91	91	91	91	91	91
92	92	92	92	92	92	92
93	93	93	93	93	93	93
94	94	94	94	94	94	94
95	95	95	95	95	95	95
96	96	96	96	96	96	96
97	97	97	97	97	97	97
98	98	98	98	98	98	98
99	99	99	99	99	99	99
100	100	100	100	100	100	100

Figure 45. STANDARD INTERFACE SIGNAL FLOW WORKSHEET

Subsystem Designator - This two-character symbol identified the subsystem from which the signal originates. The subsystem designators used are:

TD	Target Acquisition and Weapon Delivery
CM	Countermeasures
NV	Navigation
CO	Communications
PR	Aircraft Power System
MS	Aircraft Miscellaneous
CC	Central Computer Complex
MP	Multiprocessor
DS	Integrated Display

Functional Unit - Functional units (individual generic avionics systems such as Loran, Inertial, Radar, etc.) within each subsystem are defined by a one-digit number in this column.

LRU - Individual LRU's within each functional unit are identified by a letter in this column.

Connector and Pin - Three alpha-numeric characters in this field identify each individual signal originating at each LRU. Where actual subsystem information was available, this field bears a direct relationship to the actual connector and pin numbers. For example, if an LRU contains multiple connectors, pin BB of connector J3 may be identified as 3BB in these columns. Either letters or numbers may be used, depending on the system used by the actual connector. Thus, most signals can be traced back to an actual connector and pin on the existing hardware. In cases where actual information is not available, the signals are simply numbered sequentially in these three columns.

The special designator COMP in columns 1-4 indicate that the signal originates within a computer processor and is fed directly to the bus by a digital interface.



b. Signal Name

This field (columns 8 through 20) provides space for 20 alphanumeric characters which allow the recording of a descriptive name or function of the individual signal. This field only allows easy identification of signal function and is not utilized by the computer.

c. Destination

Columns 28 through 43 are used to record a maximum of four different destinations of the signal down to the LRU level. More than four multiple destinations may be recorded by using additional cards. The special designator COMP indicates signal fed directly to a computer in digital form.

d. Classification

The classification field, consisting of columns 44 and 45, is used to record the frequency range and general type of the signal. Column 44 permits the recording of four general frequency bands designated "L" (low frequency), "A" (audio range), "M" (medium frequency) or "H" (high frequency). These bands are defined as follows:

$$\begin{aligned} 0 \text{ Hz} &\leq L \leq 400 \text{ Hz} \\ 400 \text{ Hz} &< A \leq 6 \text{ kHz} \\ 6 \text{ kHz} &< M \leq 1 \text{ MHz} \\ 1 \text{ MHz} &< H \end{aligned}$$

On the basis of past studies and the ASD specification, signals of greater than 400 Hz are generally not considered for multiplexing. For completeness of the signal listing, however, all signals are listed whether multiplexed or not.

Column 45 allows the recording of four general signal types. These classifications are:

- A Analog
- D Discrete
- S Synchro
- W Digital/Numeric (dig/num)

In addition to these classifications, the special designator "PR" may be used in columns 44 and 45 to indicate power signals. In order that these columns may be used to determine the number of signals, return wires for balanced signals and two wires of every three-wire synchro signal have been left unclassified.

e. Minimum Bits Per Work (Min Bits/WD)

This field (columns 46 and 47) defines the quantization requirement for each signal. For analog and synchro signals, this is the number of bits required to represent the signal to the required accuracy. For discrete signals, it is one bit and for digital/numeric signals, it is the word length.

f. Minimum Samples Per Second (Min Sam/Sec)

This is the required update rate for each signal and is recorded in columns 48 through 50. The sampling rate is equal to the bit rate for discrete signals and the word rate for all others.

g. Electrical Interfaces

This field provides 29 columns for recording all the electrical characteristics of a signal required to design an interface. Both input (source) and output (load) characteristics are recorded in order to provide data for input and output SSIU's. The data format varies somewhat with the signal type. As a convention, however, all data should be recorded right-justified in its appropriate field. Additionally, three unique data formats are utilized. The first two are conventional integer and floating point fields. An integer is entered right-justified in the field. Right-hand blanks will be read as zeros.



A floating point number contains a decimal. If no decimal is entered, it will be assumed to be at the far right of the field. The third type is a special field referred to as a multiplier field. The multiplier field conforms to all the characteristics of a floating point field with the following exception: Multipliers of  $K(10^3)$  and  $M(10^6)$  may be entered in the right-most position of the field. This was allowed in order to extend the range of the field beyond the allowable number of characters. For example, 100,000 ohms may be entered as either 100K or .1M. Additionally, an I may be entered in the right hand position to indicate an infinite number (e.g., infinite impedance for an open circuit). In actual combination, this character is represented by  $10^{12}$ . Any non-numeric characters other than I, K or M in a multiplier field are read as zeros.

The method of listing the characteristics of each type of signal is summarized in Table 1 and described in detail in the paragraphs which follow.

NOTE: Logic one and Logic zero designations for discrete signals are for reference only. Logic one may be either high or low state and the Logic one and zero field are interchangeable on the data card. For better understanding by the user, the convention logic 1 and logic 0 should be entered on the data card in that order.

#### (1) Discrete Inputs

All discrete signal inputs are the same format in each of the following four fields:

Logic One Threshold Voltage (Cols. 51-54) - This four-character floating point field defines the high state voltage threshold requirement of the input SSIM, i.e., the voltage above which the SSIM must sense a logic "1" state.

Logic One Impedance (Cols. 55-57)- This is a three-character multiplier format field which represents the signal source impedance in the high (Logic "1") state.

TABLE 1  
ELECTRICAL INTERFACE CHARACTERISTICS

ELECTRICAL INTERFACE													
Signal Type	Column	INPUTS						OUTPUTS					
		51 53	55 57	59 61	63	65 67	69 71	73 75	77 79				
DISCRETE (Passive Load)	52 54	Logic One Threshold Voltage	Logic One State Impedance	Logic Zero Threshold Voltage	Logic One State Impedance	Logic One Threshold Voltage	Logic Zero Threshold Voltage	Logic Zero Threshold Voltage	Logic Zero Threshold Voltage				
DISCRETE (Active Load)		Logic One Threshold Voltage	Logic One State Impedance	Logic Zero Threshold Voltage	Logic One State Impedance	Logic One Threshold Voltage	Logic Zero Threshold Voltage	Logic Zero Threshold Voltage	Logic Zero Threshold Voltage				
ANALOG		Voltage	Source Impedance	Offset	AC or DC	Voltage	Load Impedance	Offset	AC or DC				
SYNCHRO		Voltage	Impedance			Voltage	Current						

These columns not used.



Logic Zero Threshold Voltage (Cols 58-61) - This four-character floating point field defines the low state voltage threshold requirement of the input SSIM, i.e., the voltage below which the SSIM must sense a Logic "0" state.

Logic Zero State Impedance (Cols. 62-64) - This is a multiplier format field which defines the signal source impedance in the low (Logic "0") state.

(2) Discrete Outputs (Passive Load)

These four fields describe the characteristics of an output signal which must provide power to a passive load.

Logic One Threshold Voltage (Cols. 65-68) - This is a floating point field which defines the voltage above which the load senses a Logic One state.

Logic Zero Threshold Voltage (Cols. 69-72) - This floating point field defines the voltage below which the load senses a Logic Zero state.

Load Impedance (Cols. 73-76) - This is a multiplier format field in which is entered the impedance of the passive load.

P (Passive Load) (Col. 79) - A P is placed in column 79 to identify the load as passive. Columns 77 and 78 are not used.

(3) Discrete Outputs (Active Load)

These fields describe the characteristics of a signal which must provide switching for an active load.

Logic One Impedance Threshold (Cols. 65-68) - This field accepts multiplier format data and defines the impedance below which the active load will sense a Logic One state.

Logic Zero Impedance Threshold (Cols. 69-72) - This multiplier format field defines the impedance above which the active load senses a Logic Zero state.

Short Circuit Current (Cols. 73-76) - This floating point field represents the maximum current in milliamperes which the active load will provide when shorted. This provides an indication of the amount of current the output SSIM must sink. The sense of the current flow is irrelevant. Therefore, a minus sign in this field will be ignored.

A (Active Load) (Col. 79) - An A is placed in Column 79 to identify the load as active. Columns 77 and 78 are not used.

#### (4) Analog Inputs

Analog input signals are expressed in these fields in terms of voltage, source impedance, D.C. offset and whether the signal is A.C. or D.C.

Voltage (Cols. 51-54) - This is a floating point field which defines the maximum analog voltage range produced by the source (see example under Offset).

Source Impedance (Cols. 55-57) - This multiplier field represents the nominal impedance of the analog signal source.

Offset (Cols. 58-61) - This floating point field defines the minimum voltage produced by the source. In conjunction with voltage (Cols. 51-54), this completely defines the bounds of an analog signal. For example, an analog signal with a range of +5 to +15 volts would be entered as 10 volts in Columns 51-54 (the absolute range of the voltage) with an offset of +5 volts entered in Columns 58-61. A voltage of -5 to +15 volts would be entered as 20 volts (absolute range) with a -5 offset.

AC or DC (Cols. 63 & 64) - These two columns contain either "AC" or "DC" to designate whether the analog source provides a D.C. or A.C. signal. All A.C. analogs are assumed to be 400 cycle with a variable rms amplitude.

Column 62 is not used.



(5) Analog Outputs (Cols. 65-79)

The analog output signal fields are defined in the same way as analog input signals (see Figure 9). The voltage and offset refer to the characteristics of the signal that the output SSIM must provide to the load. The load impedance is the nominal impedance of the analog load and determines the output power that the SSIM must provide.

(6) Synchro Inputs (Cols. 51-57)

Only two fields are used to describe synchro input signals. The first (Cols. 51-54) is a floating point field which defines the voltage. The second (Cols. 55-57) is a multiplier field representing the nominal source impedance of the synchro transmitter.

Columns 58 through 64 are not used in the synchro input field.

(7) Synchro Outputs (Cols. 65-72)

Synchro outputs likewise require only two fields. The first is a floating point field designating the voltage as in the case of synchro inputs. The second, however, is a floating point field representing current rather than impedance. It is recognized that synchro output current will vary widely, depending on such factors as slewing rate and error angle. This field, however, represents the nominal current in milliamperes which might be expected for the designated signal.

Columns 73-79 are not used.

## SECTION IV

## PROGRAM CONTROL

The following subsections will illustrate what required control cards are needed and how they are used to control the simulation programs.

## 1. GENERAL CONTROL CARD FORMAT FOR DEC-10 BATCH OPERATION

The control card format required for use on the DEC-10 will be described generally, then described in a manner unique to each program. Refer to Figure 46 for this general listing.

```
$JOB < XXX,ZZZ >  
$PAS YYYYY  
$TOPS10  
.MOUNT MTA:1/REELID:AAA 028/WE  
.ASSIGN CDR 3  
.ASSIGN LPT 5  
.ASSIGN TTY 6  
$FORTRAN/LIST or $FORTRAN/NOLIST  
    fortran source deck  
$DATA  
    data deck  
$EOD  
$TOPS 10  
*1 or *0  
.DISMOUNT 1  
$EOJ
```

Figure 46. PROGRAM CONTROL CARD-GENERAL LISTING



where:

< XXX,ZZZ > is the users identity (Ref 3)

YYYYY is the users password (Ref 3)

a. SIAAP, INFACE and TAPEFILE Control Cards

Figure 47 is a list of the control cards required for batch operation:

```
$JOB < XXX,ZZZ >
$PAS YYYYY
$TOPS10
.MOUNT MTA:1/REELID:AAA028/WE
.ASSIGN TTY 6
.ASSIGN LPT 5
.ASSIGN CDR 3
$FORTRAN/LIST or $FORTRAN/NOLIST
        fortran source deck
$DATA
        data deck
$EOD
$TOPS10
*1 or *0
.DISMOUNT 1
$EOJ
```

Figure 47. SIAAP, INFACE AND TAPFIL CONTROL CARDS

There are several options available in the control cards in Figure 47. The \$FORTRAN/LIST or \$FORTRAN/NOLIST (a standard DEC-10 option) card allows the listing or non-listing of the source deck. For SIAAP, the \*0 card allows the unmatched list to be printed, the \*1 suppresses the

AFAL-TR-76-120

printing of this list. These two cards are unique to this program. One remaining option is to leave the \*0 or \*1 card out and enter a 0 or a 1 on the TTY specified by the .ASSIGN TTY 6 card.

b. TAPEPRING and SIGNALCOUNT Control Cards

Figure 48 illustrates the required control cards necessary to run these two programs. Since there are no data cards, the \$EXECUTE card must follow the Fortran source deck.

```
$JOB < XXX,ZZZ >
$PAS  YYYYYY
$TOPS10
.MOUNT MTA:1/REELID:AAA028/WE
.ASSIGN LPT 5
.ASSIGN CDR 3
$FORTRAN/LIST or FORTRAN/NOLIST
      fortran source deck
$EXECUTE
$TOPS10
.DISMOUNT 1
$EOJ
```

Figure 48. PROGRAM TAPRNT AND SIGCNT CONTROL CARDS

To get a compiled listing of any of the programs which include a perm file and printed listings of errors and warning, use the control cards illustrated in Figure 49.



\$JOB <XXX,ZZZ>

\$PAS YYYYY

\$FORTRAN/LIST

fortran source deck

\$EOJ

Figure 49. COMPILATION ONLY CONTROL CARDS

where:

XXX,ZZZ is the user's identify code and

YYYYY is the user's password (Ref 4)

c. DEC-10 Program Control From A Remote Terminal

To run Program SIAAP and INFACE from a remote terminal requires a modification of the control cards within the deck. Refer to Figure 50 for the card format.

\$JOB <XXX,ZZZ>

\$PAS YYYYY

\$DECK NNNNN.FOR

fortran source deck

\$DECK FOR03.DAT

data deck

\$EOJ

where NNNNN is the name of the program

Figure 50. INFACE AND TAPFIL CONTROL CARD FORMAT FOR REMOTE TERMINAL USAGE

For programs which do not have data, remove the \$DECK FOR03.DAT card. The inputs at the remote terminal for all five programs are depicted in Figure 51.

```
LOG <XXX,ZZZ>  
PASSWORD YYYYYY  
MOUNT MTA:1/REELID:AAA028/WE  
ASSIGN TTY 6  
ASSIGN LPT 5  
ASSIGN DSK 3  
EXECUTE NNNNN  
DISMOUNT MTA:1  
K/F
```

Figure 51. PROGRAM SIAAP AND INFACCT REMOTE TERMINAL INPUTS

As a suggestion to the user. Due to the great number of data cards required to create the data tape using TAPFIL, it would be advisable to run this program in the batch mode. If there are any problems encountered, refer to the DEC-10 FORTRAN-10 Language manual.

## 2. PROGRAM USAGE

Before Program SIAAP and INFACCT can be used, a properly formatted data tape must be created. After this data tape is created, a signal count should be made to determine if all of the data signals are present. Also, a listing of the tape should be made.

### a. Creation Of The Mag Tape

A 600 foot reel of mag tape will be adequate for the data tape. When the DEC-10 is used, it is necessary to go to the load point on the mag tape, then use Program TAPFIL to make the data tape.

### b. Order Of Program Usage

The following list is a logical sequence to follow to run Programs SIAAP and INFACCT.

- 1) Create data tape using Program TAPFIL;
- 2) Count the signals on the data tape using Program SIGCNT;



- 3) Print from the data tape, the signal list using Program TAPRNT;
- 4) Run Program SIAAP using SYSA, SYSB, SYSC or a user signal list;
- 5) Run Program INFACE using SYSA, SYSB, SYSC or a user signal list.

Column Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29				
	\$	J	O	B	<	X	X	X	,	Z	Z	Z	>																				
	\$	P	A	S				Y	Y	Y	Y																						
	\$	T	O	P	S	I																											
	.	M	O	U	N	T		M	T	A	:	1	/	R	E	E	L	I	D	:	A	A	A		0	2	8	/	W	E			
	.	A	S	S	I	G	N		T	T	Y		6																				
	.	A	S	S	I	G	N		L	P	T		5																				
	.	A	S	S	I	G	N		C	D	R		3																				
	\$	F	O	R	T	R	A	N	/	L	I	S	T																				
	\$	F	O	R	T	R	A	N	/	N	O	L	I	S	T																		
	\$	D	A	T	A																												
	\$	E	X	E	C	U	T	E																									
	\$	E	O	D																													
	*	0																															
	*	1																															
	\$	T	O	P	S	I																											
	.	D	I	S	M	O	U	N	T		1																						
	\$	E	O	J																													
	\$	D	E	C	K		N	N	N	N	N	.	F	O	R																		
	\$	D	E	C	K		F	O	R	0	3	.	D	A	T																		

Figure 52. CONTROL CARD FORMAT



## SECTION V

### SYSTEM "B" DEVELOPMENT

This signal list was developed by the Vought System Division of LTV Aerospace Corporation under Air Force Contract F33615-73-C-1157, report AFAL-TR-73-102, and contains the signals related to fuel management, flight control, electrical power and avionics.

Details of the System "B" signal list are described in this section. The complete System "B" signal flow list is given in Appendix B, section 2. Table 2 lists all system "B" LRU's and reference designators.

#### 1. GENERAL AREA DESIGNATORS

The fact that the Avionics system consists mainly of distinct LRU's makes the assignment of reference designators relatively simple. The listing of electrical signals, however, required a somewhat different philosophy from that used in past Avionics listings. This is due primarily to the fact that a large number of electrical signals do not originate or terminate at an easily defined LRU, but are distributed over the airframe as individual switches, lights, relays, etc. This problem was eased, however, by the fact that individual LRU locations are required only in a general sense for the accomplishment of the task. Since the AFAL-furnished data included a general physical location for each signal source and sink, it was decided to derive reference designators for these general areas rather than on an LRU basis.

In order to aid in future analysis, signals were categorized as to general function, i.e., electrical, fuel management, flight controls. Each of these functions was assigned subsystem designators. Subsystem designator letter assignments are:

EL - Electrical

FM - Fuel management

FC - Flight Controls

TABLE 2

SYSTEM "B" LRU IDENTIFICATION

Target Acquisition and Weapons Delivery (TD)

1 Navigation/Weapon Delivery Computer (NWDC)

- A Tactical Computer
- B Computer Control

2 Radar Beacon

- A Receiver-Transmitter
- B Control
- C X-Band Antenna

3 Head-Up Display (HUD)

- A HUD Unit
- B Signal Data Processor
- C Cooling Fan

4 Armament Station Control Unit (ASCU)

- A C-8652/AWE ASCU
- B Armament Release Panel
- C Armament Select Panel
- D Armament Advisory Panel
- E Wing Pylon Station 1
- F Wing Pylon Station 2
- G Wing Pylon Station 3
- H Fuselage Pylon Station 4
- I Fuselage Pylon Station 5
- J Wing Pylon Station 6
- K Wing Pylon Station 7
- L Wing Pylon Station 8
- M Pilot's Stick Grip
- N ARW-77 Bullpup Transmitter
- O Aircraft Gun
- P Gun Camera
- Q Radar Display Indicator
- R Armament Safety Disable Switch

5 Forward-Looking Radar (FLR)

- A Forward Assembly
- B Radar Set Control
- C Sweep Generator



TABLE 2

SYSTEM "B" LRU IDENTIFICATION (Continued)

- D Radar Display Indicator
- E Range Set/Terrain Clearance Control
- F Fault Locator

Countermeasures (CM)

1 Radar Homing and Warning (RHAW)

- A Azimuth Indicator
- B Control-Indicator (TDU)
- C Pulse Analyzer
- D L/A Receiver
- E Amplifier Detector (45°)
- F Amplifier Detector (135°)
- G Amplifier Detector (225°)
- H Amplifier Detector (315°)
- I Remote Switching Control
- J 45° Antenna
- K 135° Antenna
- L 225° Antenna
- M 315° Antenna
- N Low Band Antenna
- O Threat Indicators

2 ECM Destruct System

- A Destruct Initiation
- B Relay Assembly

3 Jammer Pod

- A POD
- B Control

Navigation (NV)

1 Projected Moving Map Display System (PMDS)

- A Display Unit (DU)
- B Electronics Assembly Unit (EAU)

2 Inertial Measurement Set (IMS)

- A Inertial Measurement Unit (IMU)

TABLE 2

SYSTEM "B" LRU IDENTIFICATION (Continued)

- B Control/Display Unit
- C Amplifier/Power Supply (A/PS)
- D Flux Valve
- E Flight Director Computer (FDC)
  
- 3 UHF/ADF
  - A Amplifier/Relay Assembly
  - B Antenna
  
- 4 Radar Altimeter
  - A Receiver-Transmitter
  - B Altitude Indicator
  - C Antenna Switch
  - D Receiver Antenna
  - E Linearizer-Coupler
  - F Test Switch
  - G Transmit Antenna
  
- 5 (VOR/ILS)
  - A MB/GS Receiver
  - B Localizer Receiver
  - C Control
  - D Localizer Antenna
  - E Marker Beacon Antenna
  - F Glide Slope Antenna
  - G Marker Beacon Lamp
  
- 6 TACAN
  - A Receiver-Transmitter
  - B Control
  - C Antenna
  - D Horizontal Situation Indicator (HSI)
  
- 7 Heading Mode Switching Unit (HMS)
  - A Heading Mode System
  - B Master Function Switch



TABLE 2

SYSTEM "B" LRU IDENTIFICATION (Continued)

8 Doppler Radar System (DRS)

- A Receiver-Transmitter
- B Control Indicator
- C Antenna Assembly

Communications (CO)

1 Auxiliary UHF

- A Receiver
- B Control
- C ADF Guard Switch

2 UHF/AM Radio

- A Receiver-Transmitter
- B Control
- C UHF Antenna
- D Remote Frequency Channel Indicator (RFCI)

3 Audio System

- A Intercom Set

4 Secure Voice System (KY-28)

- A TSEC/KY-28
- B Control

5 VHF/FM

- A Receiver-Transmitter
- B Antenna Coupler
- C Control
- D VHF Antenna

6 IFF/SIF

- A Transponder
- B Control
- C Test Set
- D Air Data Computer (ADC)

TABLE 2

SYSTEM "B" LRU IDENTIFICATION (Continued)

E Servo Altimeter  
F Mode 4 Computer  
G Diplexer  
H Antenna

Aircraft Power System (PR)

- 1 28 VDC
- 2 115 VAC 400 Hz
  - A Phase A
  - B Phase B
  - C Phase C
- 3 Power Ground

Aircraft Miscellaneous (MS)

- 1 Central Blanking Unit
- 2 Emergency Ejection System
- 3 Master Caution Panel
- 4 Flight Instruments
- 5 Landing Gear Switch
- 6 Advisory Panel

General Area Designators

Electrical System (EL)

Flight Controls (FC)

Fuel Management (FM)

- 1 A Nose Area

TABLE 2

SYSTEM "B" LRU IDENTIFICATION (Concluded)

- 2 Cockpit Area
  - A Instrument Board
  - B Left-Hand Console
  - C Right-Hand Console
- 3 Wing Area
  - A Left Wing
  - B Right Wing
  - C Center Wing
- 4 Mid Section
  - A Left Avionics
  - B Right Avionics
  - C Left Wheel Well
  - D Right Wheel Well
  - E Lower Fuselage
  - F Mid Equipment Bay
- 5 A Aft Section



These are followed by a 2-character area designator as follows:

Nose Area	Nose	-1A
Cockpit Area	Instrument Board	-2A
	LH Console	-2B
	RH Console	-2C
Wing Area	Left Wing	-3A
	Right Wing	-3B
	Center Wing	-3C
Mid Section	LH Avionics Bay	-4A
	RH Avionics Bay	-4B
	LH Wheel Well	-4C
	RH Wheel Well	-4D
	Lower Fuselage	-4E
	Mid Equipment Bay	-4F
Aft Section	Aft	-5A

Individual signals were numbered sequentially in each area. Using this scheme, an electrical signal originating in the left-hand wheel well would therefore be designated EL4C followed by a 3-character individual signal assignment. In like manner, a flight control signal originating in the left wing section would be designated FC3A.

This method was used only for general signals where an LRU assignment was not possible.

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AFAL-TR-76-120

051-31-07-1111

APPENDIX A  
PROGRAM LISTINGS



AFAL-TR-76-120

1. PROGRAM SIAAP

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00001 C PROGRAM SIAAP
00002 DIMENSION XLQTV(6),XLZTV(6),PUIIZ(6),XLOZT(6),XLZZT(6),CRUB(6),
00003 1CRLB(6),AIIZ(6),ONAI(6),GAIN(6,16),VR(6),SIIZ(6),QNSI(6),XLOZ(6),
00004 2XLZZ(6),CSM(6),XLOV(6),XLZV(6),ALQZ(6),ALZZ(6),VUB(6),VLB(6),
00005 3AOIZ(6),GNAD(6),LRU(5),MST(8,6,17),LRURT(200,2),PWK(6),NCH(7,6),
00006 4MOD(8,6,17),UF(8,6,17),LIST(10),IACDCI(6),IACDCU(6),NUMAT(8),
00007 5XLRURT(200),MKT(5),TYPE(7)
00008 REAL LSYS,ICON,LSSIM,LLRU,LEND,IDENT,IB,LDP1,LADI,LAI,LSI,LPDO,
00009 1LADO,LAO,LBLANK,NTERM,IWAY,NMST,IOUT,NMOD,NUF,NMOD1,LSUM,NPAU,
00010 2LCOMP,LTK2,LTK3,ISYS,KSYS,LIST,LRU
00011 DATA XLTR1,LTK1,LTRL,LTRS,LTRW,LTRD,LTRA,LSYS,LSSIM,LLRU,LTKZ,XLTH
00012 1Z,LEND,XEND,LDP1,LADI,LAI,LSI,LPDO,LADO,LAO,MBLANK,XBLANK,LBLANK,N
00013 2TERM,NMST,NMOD,NUF,NMOD1,LSUM,NPAU,LCOMP,LTK2,LTK3/'1','1','1',
00014 3'S','W','D','A','SYST','SSIM','LRU','Z','Z','END','END','PDI'
00015 4,'ADI','AI','SI','PDO','ADO','AU','I','I','TERM','MST'
00016 5,'MOD','UF','MODI','MARY','PAUS','COMP','2','3'/'
00017 DATA TYPE/'PDI','ADI','AI','SI','PDO','ADO','AU'/'
00018 NI=17
00019 NRD=3
00020 NPR=5
00021 WRITE(6,4999)
00022 4999 FORMAT(' IF YOU WISH TO HAVE THE COMPLETE UNMATCHED LIST'/'X,
00023 1'PRINTFD ENTER A 0 AND RETURN, IF YOU DO NOT WISH TO HAVE'/'X,
00024 2'THIS LIST PRINTED ENTER A 1 AND RETURN. '//)
00025 READ(6,5001)ISW11
00026 C INPUT OPTION A 1 OR A 0 FOR PRINTING THE UNMATCHED LIST (0) OR NOT
00027 C PRINTING THIS LIST (1).
00028 5001 FORMAT (I1)
00029 WRITE(NPR,757)ISW11
00030 757 FORMAT(' ISW11 = ',I1//)
00031 WRITE(6,5000)
00032 5000 FORMAT(' THANK YOU FOR YOUR PROMPT REPLY. '//)
00033 LOAD=3
00034 GOTO 2
00035 1 LOAD=LOAD-1
00036 2 IF(LOAD)3,602,3
00037 3 READ(NRD,4)ICON,ISYS
00038 4 FORMAT(A4,JX,A4)
00039 IF(ISYS.EQ.'SYSA')GOTO 1001
00040 IF(ISYS.EQ.'SYSB')GOTO 1001
00041 IF(ISYS.EQ.'SYSC')GOTO 1001
00042 GO TO 1003
00043 1001 WRITE(5,1002)ISYS
00044 1002 FORMAT(' SYSTEM ',A4,' READ')
00045 1003 CONTINUE
00046 IF(ICON=LSYS)5,10,5
00047 5 IF(ICON=LSSIM)6,904,6
00048 6 IF(ICON=LLRU)7,20,7
00049 7 WRITE(NPR,8)
00050 8 FORMAT(1H1,3BHCONTROL CARD MISSING FROM LOADING DECK)
00051 GOTO 1000
00052 10 KSYS=ISYS
00053 GOTO 1
00054 20 NLRURT=1

00055 21 READ (NRD,22) LRURT(NLRURT,1),XLRURT(NLRURT)
00056 22 FORMAT(3X,12,1X,A4)

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MAIN. LNMUFS, FOR FORTRAN V.4(210)-2 /K1 13-MAY-75 14:35 PAGE 1-1

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00057      IF(LRURT(NLRURT,1)-99)23,24,23
00058      23 NLRURT=NLRURT+1
00059      GOTO 21
00060  C   LRU/RT DATA DECK IS BEING READ.
00061      24 NLRURT=NLRURT-1
00062      NRT=0
00063      DO 26 I=1,NLRURT
00064      IF(NRT-LRURT(I,1))25,26,26
00065      25 NRT=LRURT(I,1)
00066      26 CONTINUE
00067      27 FORMAT(1H1)
00068      DO 39 I=1,NRT
00069      WRITE(NPR,28)I
00070      28 FORMAT(1H ,9HIERMINAL ,12,16H LRU ASSIGNMENTS/)
00071      DO 30 J=1,10
00072      LIST(J)=XBLANK
00073      30 CONTINUE
00074      K=1
00075      DO 35 J=1,NLRURT
00076      IF(LRURT(J,1)-1)35,31,35
00077      31 LIST(K)=XLRURT(J)
00078      IF(K-10)32,33,32
00079      32 K=K+1
00080      GOTO 35
00081      33 WRITE(NPR,34)LIST
00082      34 FORMAT(1H ,4X,10(A4,2H ))
00083      K=1
00084      DO 35 L=1,10
00085      LIST(L)=XBLANK
00086      35 CONTINUE
00087      IF(K-1)36,37,36
00088      36 WRITE(NPR,727)LIST
00089      727 FORMAT(1H ,4X,10(A4,2H ))
00090      37 WRITE(NPR,38)
00091      38 FORMAT(1H //)
00092      39 CONTINUE
00093      GOTO 1
00094      904 WRITE(NPR,737)
00095      737 FORMAT(1H1)
00096      READ(NRD,101)IDENT
00097      101 FORMAT(A3)
00098      102 WRITE(NPR,747)
00099      747 FORMAT(1H //)
00100      IF(IDENT-LPDI)103,120,103
00101      103 IF(IDENT-LADI)104,130,104
00102      104 IF(IDENT-LAI)105,140,105
00103      105 IF(IDENT-LSI)106,150,106
00104      106 IF(IDENT-LPOI)107,160,107
00105      107 IF(IDENT-LAOI)108,170,108
00106      108 IF(IDENT-LAU)109,180,109
00107      109 IF(IDENT-XEND)110,1,110
00108  C   SSIM DATA DECK IS BEING READ.
00109      110 WRITE(NPR,111)
00110      111 FORMAT(1H1,35HCONTROL CARD MISSING FROM SSIM DECK)
00111      GOTO 1000
00112      120 WRITE (NPR, 121)

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00113 121 FORMAT (1H ,27HPASSIVE DISCRETE INPUT SSIM)
00114 NPD1=1
00115 122 READ(NRD,123)IDENT,XLOTV(NPD1),XLZTV(NPD1),IB1,IB2,IB3,IB4,PWR(NPD
00116 11),NCH(1,NPD1)
00117 123 FORMAT(A3,1X,2F4.0,4A1,F4.0,13)
00118 IF(IDENT=LBLANK)124,125,124
00119 124 NPD1=NPD1-1
00120 GOTO 102
00121 125 PDIIZ(NPD1)=EVAL(IB1,IB2,IB3,IB4)
00122 WRITE(NPR,126)NPD1,XLOTV(NPD1),XLZTV(NPD1),PDIIZ(NPD1),PWR(NPD1),
00123 1NCH(1,NPD1)
00124 126 FORMAT(1H ,12,3X,F8.4,8H LOTV ,F8.4,8H LZTV ,E8.2,6H IZ
00125 1F8.4,7H PWR ,13,9H CHAN/MOD)
00126 IF(XLOTV(NPD1)-XLZTV(NPD1))127,128,128
00127 127 DUM=XLOTV(NPD1)
00128 XLOTV(NPD1)=XLZTV(NPD1)
00129 XLZTV(NPD1)=DUM
00130 128 NPD1=NPD1+1
00131 GOTO 122
00132 130 WRITE(NPR,131)
00133 131 FORMAT(1H ,26HACTIVE DISCRETE INPUT SSIM)
00134 NAD1=1
00135 132 READ(NRD,133)IDENT,IB1,IB2,IB3,IB4,ID1,ID2,ID3,ID4,NCH(2,NAD1)
00136 133 FORMAT(A3,1X,6A1,13)
00137 IF(IDENT=LBLANK)134,135,134
00138 134 NAD1=NAD1-1
00139 GOTO 102
00140 135 XLOZT(NAD1)=EVAL(IB1,IB2,IB3,IB4)
00141 XLZZT(NAD1)=EVAL(ID1,ID2,ID3,ID4)
00142 WRITE(NPR,136)NAD1,XLOZT(NAD1),XLZZT(NAD1),NCH(2,NAD1)
00143 136 FORMAT(1H ,12,3X,E8.2,7H LOZT ,E8.2,8H LZTZ ,13,9H CHAN/MOD)
00144 IF(XLOZT(NAD1)-XLZZT(NAD1))137,138,138
00145 137 DUM=XLOZT(NAD1)
00146 XLOZT(NAD1)=XLZZT(NAD1)
00147 XLZZT(NAD1)=DUM
00148 NAD1=NAD1+1
00149 GOTO 132
00150 140 WRITE(NPR,141)
00151 141 FORMAT(1H ,17HANALOG INPUT SSIM)
00152 NAI=1
00153 142 READ(NRD,143)IDENT,CRUB(NAI),CRLB(NAI),IB1,IB2,IB3,IB4,QNAI(NAI),I
00154 1ACDCI(NAI),NCH(3,NAI),(GAIN(NAI,J),J=1,8)
00155 143 FORMAT(A3,1X,2F4.0,4A1,F2.0,A2,13,8F3.0)
00156 IF(IDENT=LBLANK)144,145,144
00157 144 NAI=NAI-1
00158 GOTO 102
00159 145 AIIZ(NAI)=EVAL(IB1,IB2,IB3,IB4)
00160 WRITE(NPR,146)NAI,CRUB(NAI),CRLB(NAI),AIIZ(NAI),QNAI(NAI),
00161 1ACDCI(NAI),NCH(3,NAI)
00162 146 FORMAT(1H ,12,3X,F8.4,8H CRUB ,F8.4,8H CRLB ,E8.2,6H IZ
00163 1F3.0,13H QUAN TYPE ,A2,3X,13,9H CHAN/MOD)
00164 WRITE(NPR,147)(GAIN(NAI,J),J=1,8)
00165 147 FORMAT(1H ,8HGAINS ,8(F6.3,1X))
00166 NAI=NAI+1

00167 GOTO 142
00168 150 WRITE(NPR,151)

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00169      151 FORMAT(1H ,18HSYNCHRO INPUT SSIM)
00170      NSI=1
00171      152 READ(NRD,153)IDENT,VR(NSI),IB1,IB2,IB3,IB4,QNSI(NSI),NCH(4,NSI)
00172      153 FORMAT(A3,1X,F4.0,4A1,F2.0,I3)
00173      IF(IDENT=LBLANK)154,155,154
00174      154 NSI=NSI-1
00175      GOTO 102
00176      155 SIIZ(NSI)=EVAL(IB1,IB2,IB3,IB4)
00177      WRITE(NPR,156)NSI,VR(NSI),SIIZ(NSI),QNSI(NSI),NCH(4,NSI)
00178      156 FORMAT(1H ,12,3X,F8.4,6H VK ,E8.2,6H IZ ,F3.0,6H QUAN ,13,
00179      19H CHAN/MOD)
00180      NSI=NSI+1
00181      GOTO 152
00182      160 WRITE(NPR,161)
00183      161 FORMAT(1H ,28HPASSIVE DISCRETE OUTPUT SSIM)
00184      NPDU=1
00185      162 READ(NRD,163)IDENT,IB1,IB2,IB3,IB4,ID1,ID2,ID3,ID4,CSM(NPDU),NCH(5
00186      1,NPDU)
00187      163 FORMAT(A3,1X,8A1,F4.0,I3)
00188      IF(IDENT=LBLANK)164,165,164
00189      164 NPDU=NPDU+1
00190      GOTO 102
00191      165 XLOZ(NPDU)=EVAL(IB1,IB2,IB3,IB4)
00192      XLZZ(NPDU)=EVAL(ID1,ID2,ID3,ID4)
00193      WRITE(NPR,166)NPDU,XLOZ(NPDU),XLZZ(NPDU),CSM(NPDU),NCH(5,NPDU)
00194      166 FORMAT(1H ,12,E8.2,7H LOZ ,E8.2,7H LZZ ,F8.4,7H CSM ,13,
00195      19H CHAN/MOD)
00196      IF(XLOZ(NPDU)=XLZZ(NPDU))167,168,168
00197      167 DUM=XLOZ(NPDU)
00198      XLOZ(NPDU)=XLZZ(NPDU)
00199      XLZZ(NPDU)=DUM
00200      168 NPDU=NPDU+1
00201      GOTO 162
00202      170 WRITE(NPR,171)
00203      171 FORMAT(1H ,27HACTIVE DISCRETE OUTPUT SSIM)
00204      NADU=1
00205      172 READ(NRD,173)IDENT,XLOV(NADU),XLZV(NADU),IB1,IB2,IB3,IB4,ID1,ID2,I
00206      1D3,ID4,NCH(6,NADU)
00207      173 FORMAT(A3,1X,2F4.0,8A1,I3)
00208      IF(IDENT=LBLANK)174,175,174
00209      174 NADU=NADU+1
00210      GOTO 102
00211      175 ALOZ(NADU)=EVAL(IB1,IB2,IB3,IB4)
00212      ALZZ(NADU)=EVAL(ID1,ID2,ID3,ID4)
00213      WRITE(NPR,176)NADU,ALOV(NADU),XLZV(NADU),ALOV(NADU),ALZZ(NADU),
00214      1NCH(6,NADU)
00215      176 FORMAT(1H ,12,3X,F8.4,7H LOV ,F8.4,7H LZV ,E8.2,7H LOZ
00216      1E8.2,7H LZZ ,13,9H CHAN/MOD)
00217      IF(XLOV(NADU)=XLZV(NADU))177,178,178
00218      177 DUM=XLOV(NADU)
00219      XLOV(NADU)=XLZV(NADU)
00220      XLZV(NADU)=DUM
00221      DUM=ALOV(NADU)
00222      ALOZ(NADU)=ALZZ(NADU)
00223      ALZZ(NADU)=DUM
00224      178 NADU=NADU+1

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00225      GOTO 172
00226      180 WRITE(NPR,181)
00227      181 FORMAT(1H ,18HANALOG OUTPUT SSIM)
00228      NAO=1
00229      182 READ(NRD,183)IDENT,VUB(NAO),VLB(NAO),IB1,IB2,IB3,IB4,QNAO(NAO),IAC
00230      IDCO(NAO),NCH(7,NAO)
00231      183 FORMAT(A3,1X,2F4.0,4A1,F2.0,A2,I3)
00232      IF(IDENT=LBLANK)184,185,184
00233      184 NAO=NAO+1
00234      GOTO 102
00235      185 AOIZ(NAO)=EVAL(1H1,IB2,IB3,IB4)
00236      WRITE(NPR,186)NAO,VUB(NAO),VLB(NAO),AOIZ(NAO),QNAO(NAO),
00237      IACDCU(NAO),NCH(7,NAO)
00238      186 FORMAT(1H ,12,3X,F8.4,7H VUB ,F8.4,7H VLB ,E8.2,6H SZ ,F3.0,
00239      113H QUAN TYPE ,A2,5X,I3,9H CHAN/MOD)
00240      NAO=NAO+1
00241      GOTO 182
00242      602 REWIND 1
00243      C DATA TAPE IS BEING READ.
00244      11 READ(1,12)IDENT
00245      IF(1SYS.EQ.IDENT)GOTO 9001
00246      GOTO 9002
00247      9001 WRITE(NPR,767)IDENT
00248      767 FORMAT(// ' SYSTEM ',A4,' FOUND')
00249      9002 IF(IDENT=KSYS)15,18,15
00250      12 FORMAT(A4)
00251      15 IF(IDENT=LEND)13,16,13
00252      13 READ(1,14)NDUM
00253      14 FORMAT(A1)
00254      IF(NDUM=LTRZ)13,11,13
00255      16 WRITE(NPR,17)KSYS
00256      17 FORMAT(1H1,7HSYSTEM ,A4,32H NOT LOCATED ON SYSTEM TAPE FILE)
00257      GOTO 1000
00258      18 IF (ISWIT.EQ.1) GO TO 5002
00259      WRITE(NPR,603)
00260      603 FORMAT(1H1,10X,35HUNMATCHED INTERFACE CHARACTERISTICS//)
00261      5002 DO 100 J=1,8
00262      NQMAT(J)=0
00263      100 CONTINUE
00264      DO 900 I=1,8
00265      DO 900 J=1,8
00266      DO 900 K=1,NT
00267      MST(I,J,K)=0
00268      900 CONTINUE
00269      200 READ(1,201)LRU(5),IB,LRU(1),LRU(2),LRU(3),LRU(4),IFREQ,ITYPE
00270      201 FORMAT(A4,A3,20X,4A4,2A1)
00271      IN=0
00272      NOUT=0
00273      IF (LRU(5)=XLTRZ) 216,400,216
00274      216 IF(IFREQ=LTRZ)202,204,202
00275      202 READ(1,203)
00276      203 FORMAT( )
00277      GOTO 200
00278      204 I=LRUNUM(LRU(1),LRU(2),LRU(3),LRU(4))

00279      NLRU=I
00280      J=1

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MAIN. LNM0FS.FOR FORTRAN V.4(210)-2 /K1 13-MAY-75 14:35 PAGE 1-5

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00281      K=1
00282      IF(LRU(1)-LCOMP)205,217,205
00283      205 L=LOC(LRU(J),1,LRURT(K,1),XLRURT(K),NLRURT,J,K,MRT(J))
00284      IF(L)206,208,205
00285      206 WRITE(NPR,207)LRU(J)
00286      207 FORMAT(1H,80X,A4,25H NOT FOUND IN LRU/RT FILE)
00287      WRITE (NPR,2000)LRU(5),IB
00288      2000 FORMAT (1H,80X,A4,A3)
00289      GOTO 20
00290      217 NOUIT=1
00291      208 J=5
00292      I=1
00293      K=1
00294      M=1
00295      IF(LRU(5)-LCOMP)209,218,209
00296      209 L=LOC(LRU(J),1,LRURT(K,1),XLRURT(K),NLRURT,M,K,MRT(J))
00297      IF(L)206,210,209
00298      218 IN=1
00299      210 IF(ITYPE-LIRD)211,220,211
00300      211 IF(ITYPE-LTRA)212,260,212
00301      212 IF(ITYPE-LTRS)213,280,213
00302      213 IF(ITYPE-LTRW)214,300,214
00303      214 WRITE(NPR,215)LRU(5),IB,ITYPE
00304      215 FORMAT(1H,1,A4,A3,32H CONTAINS THE INVALID TYPE CODE ,A1)
00305      GOTO 202
00306      220 READ(1,221)SLOV,IB1,IB2,IB3,SLZV,ID1,ID2,ID3,IF1,IF2,IF3,IF4,IM1,I
00307      1H2,1H3,1H4,1Z1,1Z2,1Z3,1Z4,LSAP,NCARD
00308      221 FORMAT(5X,2(F4.0,3A1),12A1,2X,A1,A1)
00309      IF(NCARD-LIR1)240,222,240
00310      222 IF(IN)240,234,240
00311      234 SLOZ=EVAL(MBLANK,1H1,IB2,IB3)
00312      SLZZ=EVAL(MBLANK,1D1,ID2,ID3)
00313      IF(SLOV-SLZV)223,230,224
00314      223 DUM=SLOV
00315      SLOV=SLZV
00316      SLZV=DUM
00317      DUM=SLOZ
00318      SLOZ=SLZZ
00319      SLZZ=DUM
00320      224 I=1
00321      225 J=IIPD1(XLOTV(I),XLZTV(I),PDIIZ(I),PWR(I),SLOV,SLOZ,SLZV,SLZZ,I,
00322      1NPD1)
00323      IF(J)227,226,225
00324      226 K=MRT(5)
00325      MST(1,I,K)=MST(1,I,K)+1
00326      GOTO 240
00327      227 IF (ISWIT,EQ.1) GO TO 5003
00328      WRITE (NPR,228) SLOV,SLOZ,SLZV,SLZZ,MRT(5)
00329      228 FORMAT(1H,25HDISCRETE INPUT INTERFACE.,4E10.2,3X,1Z/)
00330      5003 NOMAT(1)=NOMAT(1)+1
00331      GOTO 240
00332      230 I=1
00333      IF(SLOZ-SLZZ)233,231,231
00334      233 DUM=SLOZ
00335      SLOZ=SLZZ
00336      SLZZ=DUM

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00337 231 J=ITADI(XLOZT(I),XLZZT(I),SLOZ,SLZZ,I,NADI)
00338 IF(J)227,232,231
00339 232 K=MRT(5)
00340 MST(2,I,K)=MST(2,I,K)+1
00341 240 IF(NOUT)200,235,200
00342 235 IF(LSAP=LTRA)250,241,250
00343 241 SLOZT=EVAL(IF1,IF2,IF3,IF4)
00344 SLZZT=EVAL(IH1,IH2,IH3,IH4)
00345 SSCC=EVAL(IZ1,IZ2,IZ3,IZ4)
00346 IF(SLOZT=SLZZT)242,243,243
00347 242 DUM=SLOZT
00348 SLOZT=SLZZT
00349 SLZZT=DUM
00350 243 I=1
00351 244 J=ITPDO(XLOZ(I),XLZZ(I),CSM(I),SLOZT,SLZZT,SSCC,I,NPDO)
00352 IF(J)247,245,244
00353 245 DO 246 L=1,NLRU
00354 K=MRT(L)
00355 MST(5,I,K)=MST(5,I,K)+1
00356 246 CONTINUE
00357 GOTO 200
00358 247 IF (ISWIT,EQ.1) GO TO 5004
00359 WRITE(NPR,248)SLOZT,SLZZT,SSCC,LSAP,MRT(1),MRT(2),MRT(3),MRT(4)
00360 248 FORMAT(1H ,26HDISCRETE OUTPUT INTERFACE,,3E10.2,3X,A1,4(3X,I2)/)
00361 5004 NCMAT(5)=NCMAT(5)+NLRU
00362 GO TO 200
00363 250 SLOVT=EVAL(IF1,IF2,IF3,IF4)
00364 SLZVT=EVAL(IH1,IH2,IH3,IH4)
00365 SLZ=EVAL(IZ1,IZ2,IZ3,IZ4)
00366 IF(SLOVT=SLZVT)251,252,252
00367 251 DUM=SLOVT
00368 SLOVT=SLZVT
00369 SLZVT=DUM
00370 252 I=1
00371 253 J=ITADO(XLOV(I),XLZV(I),ALOZ(I),ALZZ(I),SLOVT,SLZVT,SLZ,I,NADO)
00372 IF(J)256,254,253
00373 254 DO 255 L=1,NLRU
00374 K=MRT(L)
00375 MST(6,I,K)=MST(6,I,K)+1
00376 255 CONTINUE
00377 GOTO 200
00378 256 IF (ISWIT,EQ.1) GO TO 5005
00379 WRITE(NPR,248)SLOVT,SLZVT,SLZ,LSAP,MRT(1),MRT(2),MRT(3),MRT(4)
00380 5005 NCMAT(5)=NCMAT(5)+NLRU
00381 GOTO 200
00382 260 READ(1,261)SQUAN,SVRI,IB1,IB2,IB3,SOVI,NACDCI,SVRU,ID1,ID2,ID3,ID4
00383 1,SOVO,NACDCU,NCARD
00384 261 FORMAT(F2.0,3X,F4.0,3A1,F4.0,1X,A2,F4.0,4A1,F4.0,1X,A2,A1)
00385 IF(NCARD=LTR1)270,262,270
00386 262 IF(IN)270,268,270
00387 268 SSZ=EVAL(MBLANK,IB1,IB2,IB3)
00388 I=1
00389 K=1
00390 264 J=ITAI(CRUB(I),CRLE(I),AIIZ(I),GAIN(I,K),QNAI(I),IACDCI(I),SVRI,
00391 ISOVI,SSZ,SQUAN,NACDCI,I,NAI,K)
00392 IF(J)266,265,264

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MAIN.	LNMOFS, FOR	FORTRAN V.4(210)-2 /KI	13-MAY-75	14:35	PAGE 1-7
00393	265	K=MRT(5)			
00394		MST(3,I,K)=MST(3,I,K)+1			
00395		GOTO 270			
00396	266	IF (ISWIT.EQ.1) GO TO 5006			
00397		WRITE(NPR,267)SQUAN,SVRI,SSZ,SOVI,NACDCI,MRT(5)			
00398	267	FORMAT(1H,23H ANALOG INPUT INTERFACE,,3X,F3.0,F10.4,E10.2,E10.2,			
00399		13X,A2,3X,12/)			
00400	5006	NOMAT(2)=NOMAT(2)+1			
00401	270	IF(NOUT)200,269,200			
00402	269	SLZ=EVAL(ID1,ID2,ID3,ID4)			
00403		I=1			
00404	272	J=ITAO(VUB(I),VLR(I),AOIZ(I),QNAO(I),IACDCO(I),SVRO,SOVO,SLZ,			
00405		ISQUAN,NACDCO,I,NAO)			
00406		IF(J)275,273,272			
00407	273	DO 274 I=1,NLRU			
00408		K=MRT(I)			
00409		MST(7,I,K)=MST(7,I,K)+1			
00410	274	CONTINUE			
00411		GOTO 200			
00412	275	IF (ISWIT.EQ.1) GO TO 5007			
00413		WRITE(NPR,276)SQUAN,SVRO,SLZ,SOVO,NACDCO,MRT(1),MRT(2),MRT(3)			
00414		1,MRT(4)			
00415	276	FORMAT(1H,24H ANALOG OUTPUT INTERFACE,,3X,F3.0,F10.4,E10.2,F10.4,			
00416		13X,A2,4(3X,12)/)			
00417	5007	NOMAT(6)=NOMAT(6)+NLRU			
00418		GOTO 200			
00419	280	READ(1,281)SQUAN,SVRI,IB1,IB2,IB3,C1,C2,D1,D2,NCARD			
00420	281	FORMAT (F2.0,3X,F4.0,3A1,7X,3A4,A3,A1)			
00421		IF(NCARD-LINK1)290,282,290			
00422	282	IF(IN)290,287,290			
00423	287	SSZ=EVAL(MBLANK,IB1,IB2,IB3)			
00424		I=1			
00425	283	J=ITSI(VR(I),SIIZ(I),QNSI(I),SVRI,SSZ,SQUAN,I,NSI)			
00426		IF(J)285,284,283			
00427	284	K=MRT(5)			
00428		MST(4,I,K)=MST(4,I,K)+1			
00429		GOTO 290			
00430	285	IF (ISWIT.EQ.1) GO TO 5008			
00431		WRITE(NPR,286)SQUAN,SVRI,SSZ,MRT(5)			
00432	286	FORMAT(1H,24H SYNCHRO INPUT INTERFACE,,3X,F3.0,F10.4,E10.2,3X,12/)			
00433	5008	NOMAT(3)=NOMAT(3)+1			
00434	290	IF(NOUT)200,288,200			
00435	288	IF (ISWIT.EQ.1) GO TO 5009			
00436		WRITE(NPR,291)C1,C2,D1,D2,MRT(1),MRT(2),MRT(3),MRT(4)			
00437	291	FORMAT(26H SYNCHRO OUTPUT INTERFACE,,3X,3A4,A3,4(3X,12)/)			
00438	5009	NOMAT(7)=NOMAT(7)+NLRU			
00439		GOTO 200			
00440	300	READ(1,301)A1,A2,B1,B2,C1,C2,D1,D2			
00441	301	FORMAT (5X,7A4,A1)			
00442		IF (ISWIT.EQ.1) GO TO 5010			
00443		WRITE(NPR,302)A1,A2,B1,B2,C1,C2,D1,D2,MRT(1),MRT(2),MRT(3),MRT(4),			
00444		1MRT(5)			
00445	302	FORMAT(20H DIG/NUM INTERFACES,,3X,7A4,A1,5(3X,12)/)			
00446	5010	NOMAT(4)=NOMAT(4)+(-1*(IN=1))+(-1*NLRU*(NOUT=1))			
00447		GOTO 200			
00448	400	DO 401 J=1,7			



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00449      NDMAT(8)=NDMAT(8)+NDMAT(J)
00450      401 CONTINUE
00451      WRITE(NPR,402)NDMAT
00452      402 FORMAT(1H1,51X,24HUNMATCHED SIGNAL SUMMARY//15H DISCRETE INPUT,
00453      16X,12HANALOG INPUT,7X,13HSYNCHRO INPUT,8X,7HDIG/NUM,7X,15HDISCRETE
00454      2 OUTPUT,5X,13HANALOG OUTPUT,5X,14HSYNCHRO OUTPUT/1H ,7X,14,
00455      36(14X,14)//7H TOTAL ,14)
00456      DO 404 I=1,7
00457      DO 403 J=1,5
00458      DO 403 K=1,NR1
00459      MST(I,J,NT)=MST(I,J,NT)+MST(I,J,K)
00460      403 CONTINUE
00461      DO 404 K=1,NR1
00462      DO 404 J=1,5
00463      MST(I,6,K)=MST(I,6,K)+MST(I,J,K)
00464      404 CONTINUE
00465      DO 405 K=1,NR1
00466      DO 405 I=1,7
00467      MST(8,6,K)=MST(8,6,K)+MST(I,6,K)
00468      405 CONTINUE
00469      DO 407 I=1,7
00470      DO 406 J=1,5
00471      MST(1,6,NT)=MST(1,6,NT)+MST(I,J,NT)
00472      406 CONTINUE
00473      MST(8,6,NT)=MST(8,6,NT)+MST(1,6,NT)
00474      407 CONTINUE
00475      410 READ(NRD,411)IGOUT,IWAY,IRED
00476      411 FORMAT(A4,3X,A4,3X,11)
00477      DO 412 I=1,8
00478      DO 412 J=1,6
00479      DO 412 K=1,NT
00480      MOD(I,J,K)=0
00481      UF(I,J,K)=0.
00482      412 CONTINUE
00483      IF(IGOUT-NMST)413,430,413
00484      413 IF(IGOUT-NMOD)414,450,414
00485      414 IF(IGOUT-NUF)415,450,415
00486      415 IF(IGOUT-NPAU)600,601,600
00487      601 PAUSE
00488      GOTO 410
00489      600 IF(IGOUT-NMODI)1000,416,1000
00490      416 IF (IWAY-XLTH1) 418,417,418
00491      417 LOAD=1
00492      GOTO 3
00493      418 IF(IWAY-LTP2)420,419,420
00494      419 LOAD=2
00495      GOTO 3
00496      420 IF(IWAY-LTH3)422,421,422
00497      421 LOAD=3
00498      GOTO 3
00499      422 WRITE(NPR,423)
00500      423 FORMAT(1H1,49HMODIFICATION OPTION NOT 1,2 OR 3. RUN TERMINATED.)
00501      GOTO 1000
00502      430 IF(IWAY-NTERM)424,431,424

00503      424 IF(IWAY-LSUM)440,425,440
00504      431 NPAGE=1

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2 OF 4  
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00505      DO 437 K=1,NRT
00506          NPAGE=NPAGE-1
00507          IF(NPAGE)701,700,701
00508      700 WRITE(NPR,27)
00509          NPAGE=4
00510      701 WRITE(NPR,432)K
00511      432 FORMAT(1H,16HTERMINAL NUMBER,12,13H SIGNAL COUNT/)
00512          WRITE(NPR,433)
00513      433 FORMAT(1H,4HSSIM,4X,3HPDI,4X,3HADI,5X,2HAI,5X,2HSI,4X,3HPDU,4X,
00514          13HADD,5X,2HAU)
00515          DO 448 J=1,5
00516              WRITE(NPR,434)J,(MST(I,J,K),I=1,7)
00517      434 FORMAT(1H,2X,11,5X,I3,6(4X,I3))
00518      448 CONTINUE
00519          WRITE(NPR,435)(MST(I,6,K),I=1,7)
00520      435 FORMAT(1H,5HTOTAL,2X,I4,7(3X,I4))
00521          WRITE(NPR,436)MST(8,6,K)
00522      436 FORMAT(1H,14HTOTAL SIGNALS,14////)
00523      437 CONTINUE
00524          GOTO 410
00525      425 WRITE(NPR,438)
00526      438 FORMAT(1H,20HSIGNAL COUNT SUMMARY/)
00527          WRITE(NPR,433)
00528          DO 439 J=1,5
00529              WRITE(NPR,434)J,(MST(I,J,NT),I=1,7)
00530      439 CONTINUE
00531          WRITE(NPR,435)(MST(I,6,NT),I=1,7)
00532          WRITE(NPR,436)MST(8,6,NT)
00533          GOTO 410
00534      440 NPAGE=0
00535          DO 447 I=1,7
00536              NPAGE=NPAGE-(9+NRT)
00537          IF(NPAGE)702,703,703
00538      702 WRITE(NPR,27)
00539          NPAGE=55-(9+NRT)
00540      703 XM=TYPE(I)
00541          WRITE(NPR,441)XM
00542      441 FORMAT(1H,A3,16H SSIM SIGNAL COUNT/)
00543          WRITE(NPR,442)
00544      442 FORMAT(1H,4HSSIM,5X,1H1,6X,1H2,6X,1H3,6X,1H4,6X,1H5,4X,5HTOTAL)
00545          WRITE(NPR,443)
00546      443 FORMAT(1H,4HTERM)
00547          DO 445 K=1,NRT
00548              WRITE(NPR,444)K,(MST(I,J,K),J=1,6)
00549      444 FORMAT(1H,1X,I2,5X,I3,4(4X,I3),4X,I4)
00550      445 CONTINUE
00551          WRITE(NPR,446)(MST(I,J,NT),J=1,6)
00552      446 FORMAT(1H,5HTOTAL,2X,I4,4(3X,I4),3X,I5////)
00553      447 CONTINUE
00554          GOTO 410
00555      450 IF(IRED)451,451,452
00556      451 IRED=1
00557          DO 458 I=1,7
00558              DO 458 J=1,5
00559                  DO 458 K=1,NRT
00560                      IF(MST(I,J,K))465,453,465

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00561      453 MOD(I,J,K)=0
00562      GOTU 458
00563      465 L=1
00564      M=MSI(I,J,K)*IKED
00565      454 L=L+1
00566      IF(M-(L*NCH(I,J)))455,455,454
00567      455 IF(L=IKED)456,457,457
00568      456 L=IKED
00569      457 MOD(I,J,K)=L
00570      458 CONTINUE
00571      DO 460 I=1,7
00572      DO 459 J=1,5
00573      DO 459 K=1,NRI
00574      MOD(I,J,NT)=MOD(I,J,NT)+MOD(I,J,K)
00575      459 CONTINUE
00576      DO 460 K=1,NRI
00577      DO 460 J=1,5
00578      MOD(I,6,K)=MOD(I,6,K)+MOD(I,J,K)
00579      460 CONTINUE
00580      DO 461 K=1,NRI
00581      DO 461 I=1,7
00582      MOD(8,6,K)=MOD(8,6,K)+MOD(I,6,K)
00583      461 CONTINUE
00584      DO 463 I=1,7
00585      DO 462 J=1,5
00586      MOD(I,6,NT)=MOD(I,6,NT)+MOD(I,J,NT)
00587      462 CONTINUE
00588      MOD(8,6,NT)=MOD(8,6,NT)+MOD(I,6,NT)
00589      463 CONTINUE
00590      IF(IOUT=NMUD)490,464,490
00591      464 IF(IWAY=NTERK)263,471,263
00592      263 IF(IWAY=LSUM)480,466,480
00593      471 NPAGE=1
00594      DO 475 K=1,NRI
00595      NPAGE=NPAGE+1
00596      IF(NPAGE)705,704,705
00597      704 WRITE(NPR,27)
00598      NPAGE=4
00599      705 WRITE(NPR,472)N,IKED
00600      472 FORMAT(1H ,16HTERMINAL NUMBER ,12,32H MODULE COUNT, REDUNDANCY LEV
00601      1EL ,I1/)
00602      WRITE(NPR,433)
00603      DO 473 J=1,5
00604      WRITE(NPR,434)J,(MOD(I,J,K),I=1,7)
00605      473 CONTINUE
00606      WRITE(NPR,435)(MOD(I,6,K),I=1,7)
00607      WRITE(NPR,474)MOD(8,6,K)
00608      474 FORMAT(1H ,14HTOTAL MODULES ,14////)
00609      475 CONTINUE
00610      GOTU 410
00611      466 WRITE(NPR,476)IKED
00612      476 FORMAT(1H1,39HMODULE COUNT SUMMARY, REDUNDANCY LEVEL ,I1/)
00613      WRITE(NPR,433)
00614      DO 477 J=1,5
00615      WRITE(NPR,434)J,(MOD(I,J,NT),I=1,7)
00616      477 CONTINUE

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00617      WRITE(NPR,435)(MOD(I,6,NT),I=1,7)
00618      WRITE(NPR,474)MOD(8,6,NT)
00619      GOTO 410
00620      480 NPAGE=0
00621      DO 483 I=1,7
00622      NPAGE=NPAGE+(9+NRI)
00623      IF(NPAGE)706,707,707
00624      706 WRITE(NPR,27)
00625      NPAGE=55-(9+NRI)
00626      707 XM=TYPE(1)
00627      WRITE(NPR,481)XM,IRED
00628      481 FORMAT(1H ,A3,37H SSIM MODULE COUNT, REDUNDANCY LEVEL ,I1/)
00629      WRITE(NPR,442)
00630      WRITE(NPR,443)
00631      DO 482 K=1,NRI
00632      WRITE(NPR,444)K,(MOD(I,J,K),J=1,6)
00633      482 CONTINUE
00634      WRITE(NPR,446)(MOD(I,J,NT),J=1,6)
00635      483 CONTINUE
00636      GOTO 410
00637      490 DO 493 I=1,7
00638      DO 493 J=1,5
00639      DO 493 K=1,NRI
00640      IF(MOD(I,J,K))492,491,492
00641      491 UF(I,J,K)=0.
00642      GOTO 493
00643      492 MOD(I,J,K)=MOD(I,J,K)*NCH(I,J)
00644      A=MST(I,J,K)
00645      B=IRED
00646      C=MOD(I,J,K)
00647      UF(I,J,K)=(A*B)/C
00648      493 CONTINUE
00649      DO 499 I=1,7
00650      DO 499 J=1,5
00651      MOD(I,J,NT)=0
00652      DO 494 K=1,NRI
00653      MOD(I,J,NT)=MOD(I,J,NT)+MOD(I,J,K)
00654      494 CONTINUE
00655      IF(MOD(I,J,NT))495,496,495
00656      495 A=MST(I,J,NT)
00657      C=MOD(I,J,NT)
00658      UF(I,J,NT)=(A*B)/C
00659      496 CONTINUE
00660      DO 499 K=1,NRI
00661      MOD(I,6,K)=0
00662      DO 497 J=1,5
00663      MOD(I,6,K)=MOD(I,6,K)+MOD(I,J,K)
00664      497 CONTINUE
00665      IF(MOD(I,6,K))498,499,498
00666      498 A=MST(I,6,K)
00667      C=MOD(I,6,K)
00668      UF(I,6,K)=(A*B)/C
00669      499 CONTINUE
00670      DO 502 K=1,NRI
00671      MOD(8,6,K)=0
00672      DO 500 I=1,7

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00673      MOD(8,6,K)=MOD(8,6,K)+MOD(1,6,K)
00674      500 CONTINUE
00675      IF(MOD(8,6,K))501,502,503
00676      501 A=NST(8,6,K)
00677      C=MOD(8,6,K)
00678      UF(8,6,K)=(A*B)/C
00679      502 CONTINUE
00680      MOD(8,6,NT)=0
00681      DO 505 I=1,7
00682      MOD(1,6,NT)=0
00683      DO 503 J=1,5
00684      MOD(1,6,NT)=MOD(1,6,NT)+MOD(1,J,NT)
00685      503 CONTINUE
00686      MOD(8,6,NT)=MOD(8,6,NT)+MOD(1,6,NT)
00687      IF(MOD(1,6,NT))504,505,504
00688      504 A=NST(1,6,NT)
00689      C=MOD(1,6,NT)
00690      UF(1,6,NT)=(A*B)/C
00691      505 CONTINUE
00692      IF(MOD(8,6,NT))506,507,506
00693      506 A=NST(8,6,NT)
00694      C=MOD(8,6,NT)
00695      UF(8,6,NT)=(A*B)/C
00696      507 CONTINUE
00697      IF(IWAY=NTERR)508,511,508
00698      508 IF(IWAY=LSUM)530,509,530
00699      511 NPAGE=1
00700      DO 517 K=1,NP
00701      NPAGE=NPAGE+1
00702      IF(NPAGE)709,709,709
00703      709 WRITE(NPR,47)
00704      NPAGE=4
00705      709 WRITE(NPR,512)A,INED
00706      512 FORMAT(1H ,16TERMINAL NUMBER ,12,38H UTILIZATION FACTOR, REDUNDAN
00707      CY LEVEL ,11/)
00708      WRITE(NPR,433)
00709      DO 514 J=1,5
00710      WRITE(NPR,513)J,(UF(1,J,K),I=1,7)
00711      513 FORMAT(1H ,2A,11,4X,F4.2,6(3X,F4.2))
00712      514 CONTINUE
00713      WRITE(NPR,515)(UF(1,6,K),I=1,7)
00714      515 FORMAT(1H ,5HTOTAL,2X,F4.2,7(3X,F4.2)/)
00715      WRITE(NPR,516)UF(8,6,K)
00716      516 FORMAT(1H ,28TERMINAL UTILIZATION FACTOR ,F4.2////)
00717      517 CONTINUE
00718      GOTO 410
00719      509 WRITE(NPR,518)INED
00720      518 FORMAT(1H ,45HUTILIZATION FACTOR SUMMARY, REDUNDANCY LEVEL ,11/)
00721      WRITE(NPR,433)
00722      DO 519 J=1,5
00723      WRITE(NPR,513)J,(UF(1,J,NT),I=1,7)
00724      519 CONTINUE
00725      WRITE(NPR,515)(UF(1,6,NT),I=1,7)
00726      WRITE(NPR,520)UF(8,6,NT)
00727      520 FORMAT(1H ,27HOVERALL UTILIZATION FACTOR ,F4.2)
00728      GOTO 410

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MAIN. LNMGPS.FOR FORTRAN V.4(210)-2 /KI 13-MAY-75 14135 PAGE 1-13

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00729      530 NPAGE=0
00730      DO 535 I=1,7
00731          NPAGE=NPAGE+(9+NMT)
00732      IF(NPAGE)710,711,711
00733      710 WRITE(NPR,27)
00734          NPAGE=55-(9+NMT)
00735      711 AM=TYPE(I)
00736          WRITE(NPR,531)AM,IRCD
00737      531 FORMAT(1H,A3,43H SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL ,11/)
00738          WRITE(NPR,442)
00739          WRITE(NPR,443)
00740          DO 533 K=1,NM1
00741              WRITE(NPR,532)K,(UF(I,J,K),J=1,6)
00742      532 FORMAT(1H,1X,12,4X,F4.2,5(3X,F4.2))
00743      533 CONTINUE
00744          WRITE(NPR,534)(UF(I,J,NT),J=1,6)
00745      534 FORMAT(1H,SHUTAL,2X,F4.2,5(3X,F4.2)////)
00746      535 CONTINUE
00747      GOTO 410
00748      1000 CONTINUE
00749          WRITE(NPR,777)
00750      777 FORMAT(' NORMAL END')
00751      REWIND 1
00752      STOP
00753      END

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## SUBPROGRAMS CALLED

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EVAL
LUC      LUNUM      ITADU      ITADI      ITAI      ITS1
ITPDU      ITAG      ITPDI

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SCALARS AND ARRAYS L "\*" NO EXPLICIT DEFINITION - "%" NOT REFERENCED J

.S0020 1	*S000 2	NMOD1 3	UF 4	QNAO 1464	*ISWIT 1472
*SLUZI 1473	*ID4 1474	*B2 1475	*IH3 1476	*LTRD 1477	LAO 1500
ALUZ 1501	NCH 1507	VLB 1561	*NADI 1567	NTERM 1570	.S0037 1571
*SLZZI 1572	MRI 1573	.S0123 1600	.S0036 1601	*IFREQ 1602	*IB3 1603
LPDI 1604	GAIN 1605	.S0122 1745	.S0035 1746	*IF2 1747	ALZZ 1750
CRLB 1756	.S0121 1764	.S0034 1765	*IZ4 1766	.S0120 1767	.S0033 1770
IACDCI 1771	.S0032 1777	*K 2000	.S0031 2001	*NADO 2002	*LTKW 2003
MOD 2004	.S0030 3464	*ITYPE 3465	*ID1 3466	LPDO 3467	LSI 3470
ALUZ 3471	*NLKU 3477	*LOAD 3500	LSSIM 3501	*B1 3502	IACDCU 3503
*B 3511	KSYS 3512	LNURC 3513	PDIIZ 4333	XLZZ 4341	.S0047 4347
.S0046 4350	*IZ1 4351	*NPD 4352	.S0045 4353	.S0044 4354	*IH4 4355
NUP 4356	ALUZI 4357	.S0043 4365	.S0042 4366	.S0041 4367	*D2 4370
.S0040 4371	*NAU 4372	*NLKUNT 4373	IOUT 4374	*A2 4375	*IB4 4376
LAI 4377	CSM 4400	XLZZI 4406	*IF3 4414	*NPDI 4415	*NACDCI 4416
NOMAI 4417	HNSI 4427	.S0057 4430	*M 4431	*ID2 4432	VUB 4433
.S0056 4441	*IHJ 4442	.S0055 4443	*J 4444	*MBLANK 4445	*XEND 4446
.S0054 4447	*NACDCU 4450	*SLU 4451	*NPDU 4452	*NSI 4453	*LTKA 4454
.S0053 4455	.S0007 4456	.S0052 4457	*D1 4460	*SSZ 4461	.S0006 4462
VE 4463	.S0051 4471	*SVPI 4472	.S0005 4473	*IB1 4474	*NPK 4475
.S0050 4476	*A1 4477	.S0004 4500	*A 4501	*IZ2 4502	*SLZV 4503
.S0003 4504	*ALFR1 4505	.S0002 4506	.S0001 4507	LEND 4510	.S0000 4511

AFAL-TR-76-120

MAIN. LNMOFS.FOR EURIPAM V.4(210)-2 /K1 13-MAY-75 14:35 PAGE 1-14

IWAY 4512	PWH 4513	CRUB 4521	*SVNO 4527	*SLOVT 4530	LTR3 4531
.SU067 4532	*NOUI 4533	.SU017 4534	.SU066 4535	*LSAP 4536	*IF4 4537
*NDUM 4540	.SU016 4541	.SU065 4542	*NCARD 4543	*IN 4544	*DUM 4545
.SU015 4546	.SU064 4547	*C2 4550	*SLZVT 4551	*NAI 4552	LSUM 4553
.SU014 4554	.SU063 4555	.SU017 4556	*LTRZ 4557	LKU 4560	.SU013 4565
.SU062 4566	.SU016 4567	TYPE 4570	.SU012 4577	.SU061 4600	*AM 4601
.SU015 4602	*XHLANK 4603	ICUN 4604	.SU011 4605	.SU060 4606	*SGUAN 4607
.SU014 4610	*IDJ 4611	*NRT 4612	LCOMP 4613	.SU010 4614	.SU013 4615
*IH2 4616	NPAU 4617	LAD1 4620	SIIZ 4621	*SLZ 4627	.SU012 4630
*LTKS 4631	NMOD 4632	.SU011 4633	*XLTRZ 4634	LTK2 4635	.SU010 4636
XLUV 4637	*IREU 4645	*SSCC 4646	*L 4647	lb 4650	*IB2 4651
*IF1 4652	*I 4653	*LTKL 4654	LBLANK 4655	.SU077 4656	*I23 4657
LAUU 4660	LIST 4661	AOIZ 4673	XLUTV 4701	.SU017 4707	.SU076 4710
*NPAGE 4711	XLZV 4712	.SG16 4720	.SU075 4721	*C1 4722	.SU015 4723
*C 4724	.SU074 4725	LLRU 4726	.SU014 4727	.SU073 4730	.SU027 4731
*SUVI 4732	*SLOZ 4733	IDENT 4734	LSYS 4735	.SU013 4736	.SU072 4737
.SU026 4740	*NT 4741	HST 4742	UNAI 6422	AIIZ 6430	XLZIV 6436
.SU012 6444	.SU071 6445	.SU025 6446	ISYS 6447	UNSI 6450	.SU011 6456
.SU070 6457	.SU024 6460	*LTKI 6461	.SU0110 6462	.SU023 6463	XLKUM1 6464
.SU022 6774	*SLZ 6775	.SU021 6776			

TEMPORARIES

.Q0000 10351 .Q0001 10352 .Q0002 10353 .Q0003 10354 .Q0004 10355 .Q0005 10356

MAIN. ( NO ERRORS DETECTED )



AFAL-TR-76-120

ITPD1 LNMUFS.FOM FORTRAN V.4(210)-2 /K1 13-MAY-75 14:35 PAGE 1

```

00001      FUNCTION ITPDI(A,B,C,D,W,X,Y,Z,I,J)
00002      UP=(W+C)/(X+C)
00003      DOWN=(Y+C)/(Z+C)
00004      IF(UP-A)3,1,1
00005      1 IF(DOWN-B)2,2,3
00006      2 IF(((UP+UP)/C)-D)6,6,3
00007      6 IF(((DOWN+DOWN)/C)-D)7,7,3
00008      7 ITPDI=0
00009      RETURN
00010      3 IF(J=1)4,4,5
00011      4 ITPDI=-1
00012      RETURN
00013      5 I=I+1
00014      ITPDI=1
00015      RETURN
00016      END

```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "?" NOT REFERENCED )

*Z	1	*W	2	*UP	3	*B	4	*Y	5	*J	6
*DOWN	7	*D	10	*A	11	*X	12	*ITPD1	13	*I	14
*C	15										

TEMPORARIES

.ITP02 16 .ITP03 17 .ITP04 20 .ITP05 21

ITPD1 ( NO ERRORS DETECTED )



AFAL-TR-76-120

ITADI LAMPOFS.FOR FORTRAN V.4(210)-2 /KI 13-MAY-75 14:35 PAGE 1

```
00001      FUNCTION ITADI(A,B,Y,Z,I,J)
00002      IF(Y=A)3,1,1
00003      1 IF(Z=B)2,2,3
00004      2 ITADI=0
00005      RETURN
00006      3 IF(J=1)4,4,5
00007      4 ITADI=-1
00008      RETURN
00009      5 I=I+1
00010      ITADI=1
00011      RETURN
00012      END
```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS [ "\*" NO EXPLICIT DEFINITION - "&" NOT REFERENCED ]

*Z	1	*B	2	*I	3	*J	4	*ITADI	5	*A	6
*I	7										

TEMPORARIES

.11A02 10

ITADI [ NO ERRORS DETECTED ]

AFAL-TR-76-120

ITPDU LNMUFS.FOM FORTRAN V.4(Z10)=2 /KI 13-MAX-75 14135 PAGE 1

```
00001      FUNCTION ITPDU(A,B,C,X,Y,Z,I,J)
00002      IF(A=X)4,1,1
00003      1 IF(B=I)2,2,4
00004      2 IF(C=Z)4,3,3
00005      3 ITPDU=0
00006      RETURN
00007      4 IF(J=1)5,5,6
00008      5 ITPDU=-1
00009      RETURN
00010      6 I=I+1
00011      ITPDU=1
00012      RETURN
00013      END
```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS I "\*" NO EXPLICIT DEFINITION - "\*" NOT REFERENCED I

*Z	1	*B	2	*I	3	*J	4	*A	5	*ITPDU	6
*X	7	*I	10	*C	11						

TEMPORARIES

.ITP02 12

ITPDU ( NO ERRORS DETECTED )



AFAL-TR-76-120

ITADU LNNHFS.FOR FORTRAN V.4(210)=2 /KI 13-MAY-75 14:35 PAGE 1

```
00001      FUNCTION ITADU(A,B,C,D,X,I,Z,I,J)
00002      IF(((A+Z)/(C+Z))-X)3,1,1
00003      1 IF(((B+Z)/(D+Z))-I)2,2,3
00004      2 ITADU=0
00005      RETURN
00006      3 IF(J-I)4,4,5
00007      4 ITADU=-1
00008      RETURN
00009      5 I=I+1
00010      ITADU=1
00011      RETURN
00012      END
```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "?" NOT REFERENCED )

*Z	1	*B	2	*Y	3	*ITADU	4	*J	5	*D	6
*A	7	*X	10	*I	11	*C	12				

TEMPORARIES

.IIA02 13 .IIA03 14

ITADU ( NO ERRORS DETECTED )



AFAL-TR-76-120

ITAI LNMUFS.FOR FORTRAN V.4(210)-2 /KI. 13-MAY-75 14:35 PAGE 1

```

00001      FUNCTION ITAI(A,B,C,D,E,L,U,V,Y,Z,M,I,J,K)
00002      DATA LTR/' '
00003      IF(L=4)13,12,13
00004      13 IF(L=LTR)9,12,9
00005      12 W=U*D
00006      X=V*D
00007      IF(D)2,9,2
00008      2 UP=((W+X)*C)/(C+Y)
00009      DOWN=(X*C)/(C+Y)
00010      IF(A=UP)4,3,3
00011      3 IF(B=DOWN)8,8,4
00012      4 IF(16-K)9,9,5
00013      5 K=K+1
00014      ITAI=1
00015      RETURN
00016      6 IF((W/(2.**Z))-((A-B)/(2.**Z)))14,7,7
00017      7 IF((K-(UP-DOWN))=(W/(2.**Z)))8,8,4
00018      8 ITAI=0
00019      RETURN
00020      9 IF(J=1)10,10,11
00021      10 ITAI=-1
00022      RETURN
00023      11 I=I+1
00024      K=1
00025      ITAI=1
00026      RETURN
00027      END

```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "%" NOT REFERENCED )

*Z	1	*W	2	*K	3	*E	4	*UP	5	*B	6
*Y	7	*V	10	*M	11	*J	12	*LTR	13	*DOWN	14
*D	15	*A	16	*ITAI	17	*X	20	*U	21	*L	22
*I	23	*C	24								

TEMPORARIES

.ITAI0 25 .ITAI2 26 .ITAI3 27 .ITAI4 30

ITAI ( NO ERRORS DETECTED )

AFAL-TR-76-120

ITAU LNMOES.FOR FORTRAN V.4(210)-2 /KI 13-MAY-75 14135 PAGE 1

```

00001      FUNCTION ITAU(A,B,C,D,K,W,X,Y,Z,L,I,J)
00002      DATA LTR/' '/
00003      IF(K=D)9,8,9
00004      9 IF(K=LTR)5,8,5
00005      8 UP=(A*Y)/(C+Y)
00006      DOWN=(B*Y)/(C+Y)
00007      IF(UP-(K+X))5,1,1
00008      1 IF(DOWN-X)2,2,5
00009      2 IF((W/(2.**Z))-((A-B)/(2.**D)))5,3,3
00010      3 IF(((A-B)-(UP-DOWN))-((W)/(2.**Z)))4,4,5
00011      4 ITAU=0
00012      RETURN
00013      5 IF(J-I)7,1,6
00014      6 J=I+1
00015      ITAU=1
00016      RETURN
00017      7 ITAU=-1
00018      RETURN
00019      END

```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "%" NOT REFERENCED )

*Z	1	*W	2	*K	3	*UP	4	*B	5	*Y	6
*J	7	*LTR	10	*DOWN	11	*D	12	*A	13	*ITAU	14
*X	15	*L	16	*I	17	*C	20				

TEMPORARIES

.ITA16 21 .ITA02 22 .ITA03 23

ITAU ( NO ERRORS DETECTED )



AFAL-TR-76-120

ITS1 LNMOPS.FOR FORTRAN V.4(210)-2 /K1 13-MAY-75 14:35 PAGE 1

```
00001      FUNCTION ITS1(A,B,C,X,Y,Z,I,J)
00002      IF(A=X)4,1,1
00003      1 IF(C=Z)4,2,2
00004      2 IF((X/(B+Y))-0.00025)4,3,3
00005      3 ITS1=0
00006      RETURN
00007      4 IF(J=1)6,6,5
00008      5 I=I+1
00009      ITS1=1
00010      RETURN
00011      6 IFS1=-1
00012      RETURN
00013      END
```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "%" NOT REFERENCED )

*Z	1	*B	2	*Y	3	*J	4	*A	5	*IIS1	6
*X	7	*I	10	*C	11						

TEMPORARIES

.ITS02 12 .IIS03 13

ITS1 ( NO ERRORS DETECTED )



AFAL-TR-76-120

LRUNUM LNMOES.FOR FORTRAN V.4(210)-2 /K1 13-MAY-75 14:35 PAGE 1

```

00001      FUNCTION LRUNUM(I,J,K,L)
00002      REAL I,J,K,L,LTK
00003      DATA LTK/' '
00004      IF(I-LTK)2,1,2
00005      1 LRUNUM=0
00006      RETURN
00007      2 IF(J-LTK)4,3,4
00008      3 LRUNUM=1
00009      RETURN
00010      4 IF(K-LTK)6,5,6
00011      5 LRUNUM=2
00012      RETURN
00013      6 IF(L-LTK)8,7,8
00014      7 LRUNUM=3
00015      RETURN
00016      8 LRUNUM=4
00017      RETURN
00018      END

```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "3" NOT REFERENCED )

	1	2	3	4	5	6
K						
J						
LTK						
L						
I						

TEMPORARIES

.LRU02 7

LRUNUM ( NO ERRORS DETECTED )

AFAL-TR-76-120

LOC LHMOPS.FOR FORTRAN V.4(210)-2 /K1 13-MAY-75 14:35 PAGE 1

```
00001      FUNCTION LOC(I,J,K,L,M,N,II,JJ)
00002      REAL I,L
00003      IF(I-L)4,1,4
00004      1 JJ=K
00005      J=J-1
00006      IF(J)3,2,3
00007      2 LOC=0
00008      RETURN
00009      3 N=N+1
00010      II=1
00011      LOC=1
00012      RETURN
00013      4 IF(M-II)5,5,6
00014      5 LOC=-1
00015      RETURN
00016      6 II=II+1
00017      LOC=1
00018      RETURN
00019      END
```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "%" NOT REFERENCED )

*JJ	1	*N	2	*K	3	*LOC	4	*M	5	*J	6
*II	7	L	10	I	11						

TEMPORARIES

.LOC2 12

LOC ( NO ERRORS DETECTED )



```

00001      FUNCTION EVAL(I,J,K,L)
00002      DATA LTR1,LTR2,LTR3,LTR4,LTR5,LTR6,LTR7,LTR8,LTR9,LTR0,LTRK,LTRM,
00003      1LTRI,LTR,MIN/'1','2','3','4','5','6','7','8','9','0','K','M','I',
00004      2','.','-'/'
00005      Q=1.
00006      M=0
00007      W=100.
00008      X=10.
00009      Y=1.
00010      IF(L-LTRI)2,1,2
00011      1 EVAL=10.**12.
00012      RETURN
00013      2 IF(I-MIN)130,133,130
00014      130 IF(J-MIN)131,133,131
00015      131 IF(K-MIN)132,133,132
00016      132 IF(L-MIN)134,133,134
00017      133 Q=-1.
00018      134 IF(I-LTR)4,3,4
00019      3 A=0.
00020      W=0.
00021      X=.1
00022      Y=.01
00023      Z=.001
00024      M=1
00025      GO TO 30
00026      4 IF(I-LTR0)6,5,6
00027      5 A=0.
00028      GO TO 30
00029      6 IF(I-LTR1)8,7,6
00030      7 A=1.
00031      GO TO 30
00032      8 IF(I-LTR2)10,9,10
00033      9 A=2.
00034      GO TO 30
00035      10 IF(I-LTR3)12,11,12
00036      11 A=3.
00037      GO TO 30
00038      12 IF(I-LTR4)14,13,14
00039      13 A=4.
00040      GO TO 30
00041      14 IF(I-LTR5)16,15,16
00042      15 A=5.
00043      GO TO 30
00044      16 IF(I-LTR6)18,17,18
00045      17 A=6.
00046      GO TO 30
00047      18 IF(I-LTR7)20,19,20
00048      19 A=7.
00049      GO TO 30
00050      20 IF(I-LTR8)22,21,22
00051      21 A=8.
00052      GO TO 30
00053      22 IF(I-LTR9)5,23,5
00054      23 A=9.

00055      30 IF(J-LTR)32,31,32
00056      31 W=1.

```



```

00057      B=0.
00058      X=0.
00059      Y=.1
00060      Z=.01
00061      M=1
00062      GO TO 60
00063 32 IF(J-LTR0)34,33,34
00064 33 B=0.
00065      GO TO 60
00066 34 IF(J-LTR1)36,35,36
00067 35 B=1.
00068      GO TO 60
00069 36 IF(J-LTR2)38,37,38
00070 37 B=2.
00071      GO TO 60
00072 38 IF(J-LTR3)40,39,40
00073 39 B=3.
00074      GO TO 60
00075 40 IF(J-LTR4)42,41,42
00076 41 B=4.
00077      GO TO 60
00078 42 IF(J-LTR5)44,43,44
00079 43 B=5.
00080      GO TO 60
00081 44 IF(J-LTR6)46,45,46
00082 45 B=6.
00083      GO TO 60
00084 46 IF(J-LTR7)48,47,48
00085 47 B=7.
00086      GO TO 60
00087 48 IF(J-LTR8)50,49,50
00088 49 B=8.
00089      GO TO 60
00090 50 IF(J-LTR9)33,51,33
00091 51 B=9.
00092 60 IF(K-LTR)62,61,62
00093 61 W=10.
00094      X=1.
00095      C=0.
00096      Y=0.
00097      Z=.1
00098      M=1
00099      GO TO 90
00100 62 IF(K-LTR0)64,63,64
00101 63 C=0.
00102      GO TO 90
00103 64 IF(K-LTR1)66,65,66
00104 65 C=1.
00105      GO TO 90
00106 66 IF(K-LTR2)68,67,68
00107 67 C=2.
00108      GO TO 90
00109 68 IF(K-LTR3)70,69,70
00110 69 C=3.
00111      GO TO 90
00112 70 IF(K-LTR4)72,71,72

```

```

00113      71 C=4.
00114      GU TO 90
00115      72 IF(K-LTR5)74,73,74
00116      73 C=5.
00117      GU TO 90
00118      74 IF(K-LTR6)76,75,76
00119      75 C=6.
00120      GU TO 90
00121      76 IF(K-LTR7)78,77,78
00122      77 C=7.
00123      GU TO 90
00124      78 IF(K-LTR8)80,79,80
00125      79 C=8.
00126      GU TO 90
00127      80 IF(K-LTR9)82,81,82
00128      81 C=9.
00129      90 IF(L-LTRM)92,91,92
00130      91 D=0.
00131      4=0.
00132      E=10.***.
00133      GU TO 120
00134      92 IF(L-LTRK)94,93,94
00135      93 D=0.
00136      Z=0.
00137      E=1000.
00138      GU TO 120
00139      94 IF(L-LTR)96,95,96
00140      95 D=0.
00141      Z=0.
00142      E=1.
00143      GU TO 120
00144      96 IF(L-LTR0)98,97,98
00145      97 D=0.
00146      GU TO 116
00147      98 IF(L-LTR1)100,99,100
00148      99 D=1.
00149      GU TO 116
00150      100 IF(L-LTR2)102,101,102
00151      101 D=2.
00152      GU TO 116
00153      102 IF(L-LTR3)104,103,104
00154      103 D=3.
00155      GU TO 116
00156      104 IF(L-LTR4)106,105,106
00157      105 D=4.
00158      GU TO 116
00159      106 IF(L-LTR5)108,107,108
00160      107 D=5.
00161      GU TO 116
00162      108 IF(L-LTR6)110,109,110
00163      109 D=6.
00164      GU TO 116
00165      110 IF(L-LTR7)112,111,112
00166      111 D=7.

00167      GU TO 116
00168      112 IF(L-LTR8)114,113,114

```



AFAL-TR-76-120

EVAL LNMOFS.FOR FORTRAN V.4(210)-2 /K1 13-MAY-75 14:35 PAGE 1-3

```

00169      113 D=8.
00170      GO TO 116
00171      114 IF(L=LTM9)97,115,97
00172      115 D=9.
00173      116 IF(M=1)114,117,116
00174      117 F=1.
00175      GO TO 120
00176      118 E=1.
00177      W=1000.
00178      X=100.
00179      Y=10.
00180      Z=1.
00181      120 EVAL=((A**X)+(B**X)+(C**Y)+(D**Z))*E*W
00182      RETURN
00183      END

```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "% NOT REFERENCED )

*LTM	1	*IN	2	*Z	3	*LTM7	4	*W	5	*LTM6	6
*U	7	*EVAL	10	*K	11	*LTM6	12	*E	13	*B	14
*LTM1	15	*LTM5	16	*Y	17	*M	20	*LTM4	21	*J	22
*LTM	23	*D	24	*A	25	*LTM3	26	*LTM	27	*X	30
*LTM9	31	*LTM2	32	*L	33	*I	34	*LTM8	35	*C	36
*LTM1	37										

TEMPORARIES

.EVAL0 40 .EVAL2 41 .EVAL3 42

EVAL ( NO ERRORS DETECTED )



AFAL-TR-76-120

## 2. PROGRAM INFACE

MAIN. LNL6H1.FOR FORTRAN V.4(210)-2 /K1 21-APR-75 11:38 PAGE 1

```

00001 C PROGRAM INFACE - TO LIST SSIM'S BY LRU
00002 DIMENSION R1(150),LRU(150),XLUTV(6),XLZTV(6),NCH(7,6),PDI1Z(6),
00003 1XLOZT(6),XLZZT(6),CRUR(6),CRLB(6),QNA1(6),IACDC1(6),GMIN(6,16),
00004 2VR(6),QNS1(6),A1Z(6),S1Z(6),CSM(6),XLQZ(6),ALZZ(6),ALUV(6),
00005 3XLZV(6),ALQZ(6),ALZZ(6),VUB(6),VLB(6),QNAO(6),IACDCO(6),
00006 4MODCNT(150,7,5),XLRU(5),LRUND(5),AUIZ(6),PWH(6)
00007 REAL LRU,MODTYP,IB
00008 INTEGER R1
00009 DATA XPD1,XAD1,XA1,XS1,XAD0,XPD0,XAO,XBLANK,XEND,LIRZ,XLIRZ,LTRL,
00010 1ACOMP,LTRD,LTRA,LTRS,LTRW,LTR1,MBLANK,YEND/'PDI','ADI','AI',
00011 2'SI','ADU','PDU','AO',' ','END','Z','Z','L','COMP','D',
00012 3'A','S','N','1',' ','END'/'
00013 READ (3,876) NUTIN
00014 876 FORMAT(A1)
00015 DO 10 NLRUNT=1,150
00016 READ (3,20) R1(NLRUNT),LRU(NLRUNT)
00017 20 FORMAT(3X,12,1X,A4)
00018 IF (R1(NLRUNT).EQ.99) GO TO 30
00019 10 CONTINUE
00020 30 NLRUNT=NLRUNT+1
00021 C THE LRU/R1 ASSIGNMENTS HAVE BEEN MADE
00022 READ (3,886) NUTIN
00023 886 FORMAT(A1)
00024 READ (3,40) MODTYP
00025 40 FORMAT(A3)
00026 50 IF (MODTYP.EQ.XPD1) GO TO 120
00027 IF (MODTYP.EQ.XAD1) GO TO 130
00028 IF (MODTYP.EQ.XA1 ) GO TO 140
00029 IF (MODTYP.EQ.XS1 ) GO TO 150
00030 IF (MODTYP.EQ.XPD0) GO TO 160
00031 IF (MODTYP.EQ.XAD0) GO TO 170
00032 IF (MODTYP.EQ.XAO ) GO TO 180
00033 IF (MODTYP.EQ.YEND) GO TO 190
00034 C THE SSIM DATA DECK HAS BEEN READ
00035 WRITE (5,111)
00036 111 FORMAT (' CONTROL CARD MISSING FROM SSIM DECK')
00037 GO TO 1000
00038 120 WRITE (5,121)
00039 121 FORMAT (' PASSIVE DISCRETE INPUT SSIM')
00040 NPD1=1
00041 122 READ (3,123) MODTYP,XLUTV(NPD1),XLZTV(NPD1),IB1,IB2,IB3,IB4
00042 1,PAN(NPD1),NCH(1,NPD1)
00043 123 FORMAT (A3,1X,2F4.0,4A1,F4.0,13)
00044 IF (MODTYP.EQ.XBLANK) GO TO 125
00045 NPD1=NPD1+1
00046 GO TO 50
00047 125 PDI1Z(NPD1)=EVAL(IB1,IB2,IB3,IB4)
00048 WRITE (5,126) NPD1,XLUTV(NPD1),XLZTV(NPD1),PDI1Z(NPD1),PWH(NPD1)
00049 1,NCH(1,NPD1)
00050 126 FORMAT (' ',12,3X,F8.4,8H LUTV ,F8.4,8H LZTV ,E8.2,8H 1Z
00051 1F8.4,7H PAN ,13,9H CHAN/MOD)
00052 IF (XLUTV(NPD1).GE.XLZTV(NPD1)) GO TO 128
00053 DUM = XLUTV(NPD1)
00054 XLUTV(NPD1)=XLZTV(NPD1)
00055 XLZTV(NPD1)=DUM
00056 128 NPD1=NPD1+1

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MAIN. LNL6H1.FOR      FORTRAN V.4(210)-2 /KI    21-APK-75      11:38    PAGE 1-1

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00057      GO TO 122
00058      130 WRITE (5,131)
00059      131 FORMAT(' ACTIVE DISCRETE INPUT SSIM')
00060      NADI=1
00061      132 READ (3,133) MODTYP,IB1,IB2,IB3,IB4,ID1,ID2,ID3,ID4,NCH(2,NADI)
00062      133 FORMAT(A3,1X,8A1,13)
00063      IF (MODTYP.EQ.XBLANK) GO TO 135
00064      NADI=NADI-1
00065      GO TO 50
00066      135 XLOZT(NADI)=EVAL(IB1,IB2,IB3,IB4)
00067      XLZZT(NADI)=EVAL(ID1,ID2,ID3,ID4)
00068      WRITE (5,136) NADI,XLOZT(NADI),XLZZT(NADI),NCH(2,NADI)
00069      136 FORMAT(' ',12,3X,E8.2,7H LOZT ,E8.2,8H LZZT ,13,9H CHAN/MOD)
00070      IF (XLOZT(NADI).GE.XLZZT(NADI)) GO TO 138
00071      DUM=XLOZT(NADI)
00072      XLOZT(NADI)=XLZZT(NADI)
00073      XLZZT(NADI)=DUM
00074      138 NADI=NADI+1
00075      GO TO 132
00076      140 WRITE (5,141)
00077      141 FORMAT (' ANALOG INPUT SSIM')
00078      NAI=1
00079      142 READ (3,143) MODTYP,CRUB(NAI),CRLB(NAI),IB1,IB2,IB3,IB4,QNA1(NAI),
00080      1IACDC1(NAI),NCH(3,NAI), (GAIN(NAI,J),J=1,16)
00081      143 FORMAT(A3,1X,2F4.0,4A1,F2.0,A2,13,16F3.0)
00082      IF (MODTYP.EQ.XBLANK) GO TO 145
00083      NAI=NAI-1
00084      GO TO 50
00085      145 AIIZ(NAI)=EVAL(IB1,IB2,IB3,IB4)
00086      WRITE (5,146) NAI,CRUB(NAI),CRLB(NAI),AIIZ(NAI),QNA1(NAI),
00087      1IACDC1(NAI),NCH(3,NAI)
00088      146 FORMAT(' ',12,3X,F8.4,' CRUB ',F8.4,' CRLB ',E8.2,' 1Z
00089      IF3.0,' QUAN TYPE ',A2,3X,13,9H CHAN/MOD)
00090      WRITE (5,147) (GAIN(NAI,J),J=1,7)
00091      147 FORMAT (' GAINS ',7(F6.3,1X))
00092      NAI=NAI+1
00093      GO TO 142
00094      150 WRITE (5,151)
00095      151 FORMAT (' SYNCHRO INPUT SSIM')
00096      NSI=1
00097      152 READ (3,153) MODTYP,VR(NSI),IB1,IB2,IB3,IB4,QNSI(NSI),NCH(4,NSI)
00098      153 FORMAT (A3,1X,F4.0,4A1,F2.0,13)
00099      IF (MODTYP.EQ.XBLANK) GO TO 155
00100      NSI=NSI-1
00101      GO TO 50
00102      155 SIIZ(NSI)=EVAL(IB1,IB2,IB3,IB4)
00103      WRITE (5,156) NSI,VR(NSI),SIIZ(NSI),QNSI(NSI),NCH(4,NSI)
00104      156 FORMAT (' ',12,3X,F8.4,' VR ',E8.2,' 1Z ',F3.0,' QUAN ',13,
00105      1' CHAN/MOD')
00106      NSI=NSI+1
00107      GO TO 152
00108      160 WRITE (5,161)
00109      161 FORMAT (' PASSIVE DISCRETE OUTPUT SSIM')
00110      NPDU=1
00111      162 READ (3,163) MODTYP,IB1,IB2,IB3,IB4,ID1,ID2,ID3,ID4,CSM(NPDU),
00112      1NCH(5,NPDU)

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MAIN. LNL6H1.FOR FORTHAN V.4(210)-2 /K1 21-APK-75 11:38 PAGE 1-2

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00113 163 FORMAT (A3,1X,B41,F4.0,13)
00114 IF (MODTYP.EQ.XBLANK) GO TO 165
00115 NPDU=NPDU+1
00116 GO TO 50
00117 165 XLOZ(NPDU)=EVAL(1B1,1B2,1B3,514)
00118 XLZZ(NPDU)=EVAL(1D1,1D2,1D3,1D4)
00119 WRITE (5,166) NPDU,XLOZ(NPDU),XLZZ(NPDU),CSM(NPDU),NCH(5,NPDU)
00120 166 FORMAT(' ',12,E8.2,' LOZ ',F8.2,' LZZ ',F8.4,' CSM ',13,
00121 1' CHAN/MOD')
00122 IF (XLOZ(NPDU).GE.XLZZ(NPDU)) GO TO 168
00123 DUM=XLOZ(NPDU)
00124 XLOZ(NPDU)=XLZZ(NPDU)
00125 XLZZ(NPDU)=DUM
00126 168 NPDU=NPDU+1
00127 GO TO 162
00128 170 WRITE (5,171)
00129 171 FORMAT(' ACTIVE DISCRETE OUTPUT SSIM')
00130 NADU=1
00131 172 READ (3,173) MODTYP,XLOV(NADU),XLZV(NADU),1B1,1B2,1B3,1B4,1D1,1D2,
00132 1D3,1D4,NCH(6,NADU)
00133 173 FORMAT(A3,1X,2F4.0,B41,13)
00134 IF (MODTYP.EQ.XBLANK) GO TO 175
00135 NADU=NADU+1
00136 GO TO 50
00137 175 ALOZ(NADU)=EVAL(1B1,1B2,1B3,1B4)
00138 ALZZ(NADU)=EVAL(1D1,1D2,1D3,1D4)
00139 WRITE (5,176) NADU,XLOV(NADU),XLZV(NADU),ALOZ(NADU),ALZZ(NADU)
00140 1,NCH(6,NADU)
00141 176 FORMAT(' ',12,3X,F8.4,' LOV ',F8.4,' LZV ',E8.2,' LOZ ',
00142 1E8.2,' LZZ ',13,' CHAN/MOD')
00143 IF (XLOZ(NADU).GE.XLZV(NADU)) GO TO 178
00144 DUM=XLOV(NADU)
00145 XLOV(NADU)=XLZV(NADU)
00146 XLZV(NADU)=DUM
00147 DUM=ALOZ(NADU)
00148 ALOZ(NADU)=ALZZ(NADU)
00149 ALZZ(NADU)=DUM
00150 178 NADU=NADU+1
00151 GO TO 172
00152 180 WRITE (5,181)
00153 181 FORMAT(' ANALOG OUTPUT SSIM')
00154 NAO=1
00155 182 READ (3,183) MODTYP,VUB(NAO),VLB(NAO),1B1,1B2,1B3,1B4,UNAU(NAO),
00156 1IACOCO(NAO),NCH(7,NAO)
00157 183 FORMAT (A3,1X,2F4.0,4A1,F2.0,A2,13)
00158 IF (MODTYP.EQ.XBLANK) GO TO 185
00159 NAO=NAO+1
00160 GO TO 50
00161 185 AOIZ(NAO)=EVAL(1B1,1B2,1B3,1B4)
00162 WRITE (5,186) NAO,VUB(NAO),VLB(NAO),AOIZ(NAO),UNAU(NAO),IACOCO(NAO)
00163 1),NCH(7,NAO)
00164 186 FORMAT(' ',12,3X,F8.4,' VUB ',F8.4,' VLB ',E8.2,' SZ ',
00165 1F3.0,' QUAN TYPE ',A2,5X,13,' CHAN/MOD')
00166 NAO=NAO+1
00167 GO TO 182
00168 190 READ (3,191) XSYS

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MAIN. LNL6H1.FOR FORTRAN V.4(210)-2 /K1 21-APR-75 11:38 PAGE 1-3

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00169      191 FORMAT (7X,A4)
00170      C  SYSTEM TYPE READ FROM CARD
00171          WRITE (5,610) XSYS
00172          WRITE (6,610) XSYS
00173      610 FORMAT(' SYSTEM ',A4,' READ'///)
00174          REWIND 1
00175      11 READ (1,12) XIDENT
00176      12 FORMAT (A4)
00177          IF (XIDENT.EQ.XSYS) GO TO 18
00178          IF (XIDENT.EQ.XEND) GO TO 16
00179      C  READ SYSTEM TYPE OR DATA END STATEMENT FROM TAPE
00180      13 READ (1,14) NDUM
00181      14 FORMAT (A1)
00182          IF (NDUM=LTRZ) 13,11,13
00183      16 WRITE (5,17) XSYS
00184      17 FORMAT (' SYSTEM ',A4,' NOT LOCATED ON SYSTEM TAPE FILE')
00185          GO TO 1000
00186      18 DO 900 I=1,NLRURT
00187          DO 900 J=1,7
00188          DO 900 K=1,5
00189          MODCNT(I,J,K)=0
00190      900 CONTINUE
00191          WRITE (5,620) XIDENT
00192          WRITE (6,620) XIDENT
00193      620 FORMAT(' SYSTEM ',A4,' FOUND'///)
00194          NSIG=0
00195      200 READ (1,201) XLRU(5),IB,(XLRU(I),I=1,4),IFREQ,11YPE
00196      201 FORMAT (A4,A3,20X,4A4,2A1)
00197          NSIG=NSIG+1
00198          IN=0
00199          NOUT=0
00200          IF (XLRU(5).EQ.XLTRZ) GO TO 400
00201          IF (IFREQ.EQ.LTRL) GO TO 204
00202      202 READ (1,203)
00203      203 FORMAT ( )
00204      C  SKIPS NEXT LINE OF DATA ON THE DATA TAPE
00205          GO TO 200
00206      204 I=LKUNUM(XLRU(1),XLRU(2),XLRU(3),XLRU(4))
00207          NLFU=I
00208          J=1
00209          K=1
00210          IF (XLRU(1).EQ.XCOMP) GO TO 217
00211      205 L=LUC(XLRU(J),I,K,LRU(K),NLRURT,J,LKUNU(J))
00212          IF (L) 206,208,205
00213      206 WRITE (5,207) XLRU(J)
00214      207 FORMAT (' ',80X,A4,' NOT FOUND IN LRU/RT FILE')
00215          WRITE (5,2000) XLRU(K),IB
00216      2000 FORMAT(' ',80X,A4,A3)
00217          GO TO 202
00218      217 NOUT=1
00219      208 J=5
00220          I=1
00221          K=1
00222          M=1
00223          IF (XLRU(5).EQ.XCOMP) GO TO 218
00224      209 L=LUC(XLRU(J),I,K,LRU(K),NLRURT,M,LKUNU(J))

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MAIN. LNL6H1.FOR FORTRAN V.4(210)-2 /KI 21-APR-75 11:38 PAGE 1-4

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00225      IF (L) 206,210,209
00226      218 IN=1
00227      210 IF (ITYPE.EQ.LTRD) GO TO 220
00228      IF (ITYPE.EQ.LTKA) GO TO 260
00229      IF (ITYPE.EQ.LTKS) GO TO 280
00230      IF (ITYPE.EQ.LTRW) GO TO 202
00231      WRITE (5,215) XLRU(5),IB,ITYPE
00232      215 FORMAT('1',A4,A3,' CONTAINS THE INVALID TYPE CODE ',A1)
00233      GO TO 202
00234      220 READ (1,221) SLOV,IB1,IB2,IB3,SLZV,ID1,ID2,ID3,IF1,IF2,IF3,IF4,IH1
00235      1,IH2,IH3,IH4,IZ1,IZ2,IZ3,IZ4,LSAP,NCARD
00236      221 FORMAT(5X,2(F4.0,3A1),12A1,2X,A1,A1)
00237      IF (NCARD.NE.LTK1) GO TO 240
00238      IF (IN.NE.0) GO TO 240
00239      SLOZ=EVAL(MBLANK,IB1,IB2,IB3)
00240      SLZZ=EVAL(MBLANK,ID1,ID2,ID3)
00241      IF (SLOV-SLZV) 223,230,224
00242      223 DUM=SLOV
00243      SLOV=SLZV
00244      SLZV=DUM
00245      DUM=SLOZ
00246      SLOZ=SLZZ
00247      SLZZ=DUM
00248      224 I=1
00249      225 J=ITPDI(XLOTV(I),XLZTV(I),PDIIZ(I),PWR(I),SLOV,SLOZ,SLZV,SLZZ,I,
00250      1,NPDI)
00251      IF (J) 240,226,225
00252      226 K=LRUNG(5)
00253      MODCNT(K,1,I)=MODCNT(K,1,I)+1
00254      GO TO 240
00255      230 I=1
00256      IF (SLOZ.GE.SLZZ) GO TO 231
00257      DUM=SLOZ
00258      SLOZ=SLZZ
00259      SLZZ=DUM
00260      231 J=ITADI(XLOZT(I),XLZZT(I),SLOZ,SLZZ,I,NADI)
00261      IF (J) 240,232,231
00262      232 K=LRUNG(5)
00263      MODCNT(K,2,I)=MODCNT(K,2,I)+1
00264      240 IF (NOUT.NE.0) GO TO 200
00265      IF (LSAP.NE.LTKA) GO TO 250
00266      241 SLOZT=EVAL(IF1,IF2,IF3,IF4)
00267      SLZZT=EVAL(IH1,IH2,IH3,IH4)
00268      SSCC =EVAL(IZ1,IZ2,IZ3,IZ4)
00269      IF (SLOZT.GE.SLZZT) GO TO 243
00270      DUM=SLOZT
00271      SLOZT=SLZZT
00272      SLZZT=DUM
00273      243 I=1
00274      244 J=ITPDO(XLOZ(I),XLZZ(I),CSM(1),SLOZT,SLZZT,SSCC,I,NPDO)
00275      IF (J) 200,245,244
00276      245 DO 246 L=1,NLPU
00277      K=LRUNG(L)
00278      MODCNT(K,5,1)=MODCNT(K,5,1)+1
00279      246 CONTINUE
00280      GO TO 200

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MAIN.    LNL6H1.FOR      FORTRAN V.4(210)-2 /KI   21-APR-75      11:38   PAGE 1-5

00281      250 SLOVT=EVAL(IF1,IF2,IF3,IF4)
00282      SLZVT=EVAL(IH1,IH2,IH3,IH4)
00283      SLZ=EVAL(IZ1,IZ2,IZ3,IZ4)
00284      IF (SLOVT.GE.SLZVT) GO TO 252
00285      DUM=SLOVT
00286      SLZVT=DUM
00287      252 I=1
00288      253 J=IADD(XLOV(1),XLZV(1),ALUZ(1),ALZZ(1),SLOVT,SLZVT,SLZ,1,
00289      1NADU)
00290      IF (J) 200,254,253
00291      254 DO 255 L=1,NLRU
00292      K=LKRUN(L)
00293      MODCNT(K,6,1)=MODCNT(K,6,1)+1
00294      255 CONTINUE
00295      GO TO 200
00296      260 READ (1,201) SQUAN,SVRI,IB1,IB2,IB3,SOVI,NACDC1,SVRO,ID1,ID2,ID3,
00297      1ID4,SOVO,NACDC0,NCARD
00298      261 FORMAT(F2.0,3X,F4.0,3A1,F4.0,1X,A2,F4.0,4A1,F4.0,1X,A2,A1)
00299      IF (NCARD.NE.LTR1) GO TO 270
00300      IF (IN.NE.0) GO TO 270
00301      SSZ=EVAL(MBLANK,IB1,IB2,IB3)
00302      I=1
00303      K=1
00304      264 J=ITAI(CRUB(1),CRLE(1),AITZ(1),GAIN(1,K),UNAI(1),IACDC1(1),SVRI,
00305      1SOVI,SSZ,SQUAN,NACDC1,1,NAI,K)
00306      IF (J) 270,265,264
00307      265 K=LKRUN(5)
00308      MODCNT(K,3,1)=MODCNT(K,3,1)+1
00309      270 IF (NOUT.NE.0) GO TO 200
00310      SLZ=EVAL(ID1,ID2,ID3,ID4)
00311      I=1
00312      272 J=ITAU(VUB(1),VLF(1),AOIZ(1),UNAU(1),IACDC0(1),SVRO,SOVO,SLZ,
00313      1SQUAN,NACDC0,1,NAU)
00314      IF (J) 200,273,272
00315      273 DO 274 L=1,NLRU
00316      K=LKRUN(L)
00317      MODCNT(K,7,1)=MODCNT(K,7,1)+1
00318      274 CONTINUE
00319      GO TO 200
00320      280 READ (1,281) SQUAN,SVRI,IB1,IB2,IB3,C1,C2,D1,D2,NCARD
00321      281 FORMAT(F2.0,3X,F4.0,3A1,7X,3A4,A3,A1)
00322      IF (NCARD.NE.LTR1) GO TO 200
00323      282 IF (IN.NE.0) GO TO 200
00324      SSZ=EVAL(MBLANK,IB1,IB2,IB3)
00325      I=1
00326      283 J=ITSI(VR(1),SIIZ(1),UNSI(1),SVRI,SSZ,SQUAN,1,NS1)
00327      IF (J) 200,284,283
00328      284 K=LKRUN(5)
00329      MODCNT(K,4,1)=MODCNT(K,4,1)+1
00330      GO TO 200
00331      400 MAXRT=1
00332      NSIG = NSIG - 1
00333      WRITE (5,623) NSIG
00334      WRITE (6,623) NSIG
00335      623 FORMAT(' I COUNTED ',15,' DATA SIGNALS')
00336      DO 402 I=1,NLRUNT

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MAIN. LNL6H1.FOR FORTRAN V.4(210)-2 /K1 21-APR-75 11:38 PAGE 1-6

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00337      IF (MAXRT.GE.RT(I)) GO TO 402
00338      MAXRT=RT(I)
00339      402 CONTINUE
00340      DO 410 M=1,MAXRT
00341      WRITE (5,403) M
00342      403 FORMAT('ISSIM SUMMARY BY LRU FOR TERMINAL ',I2)
00343      WRITE (5,401)
00344      401 FORMAT(' LRU          PDI          ADI          AI
00345      1          SJ          PDU          ADU
00346      2          AU')
00347      WRITE (5,404)
00348      404 FORMAT('          1 2 3 4 5          1 2 3 4 5          1 2 3 4 5
00349      1          1 2 3 4 5          1 2 3 4 5          1 2 3 4 5
00350      2          1 2 3 4 5')
00351      WRITE (5,405)
00352      405 FORMAT(' ')
00353      DO 406 I=1,NLRURT
00354      IF (RT(I).NE.M) GO TO 406
00355      WRITE (5,407) LRU(I),((MODCNT(I,J,K),K=1,5),J=1,7)
00356      407 FORMAT(' ',A4,4X,7(5I3,2X))
00357      406 CONTINUE
00358      410 CONTINUE
00359      1000 WRITE (6,630)
00360      630 FORMAT(' NORMAL EQU'//)
00361      WRITE (5,640)
00362      640 FORMAT(' NORMAL EQU'//)
00363      REWIND 1
00364      STOP
00365      END

```

## SUBPROGRAMS CALLED

EVAL  
LGC LRUUM ITAD0 ITADI ITAI ITSI  
ITP00 ITAU ITPDI

## SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "%" NOT REFERENCED )

*SOVO	1	*NOTIN	2	*XPDI	3	QNAU	4	*SLUZI	12	*ID4	13
*IH3	14	*LIRD	15	*ODTYP	16	ALUZ	17	VLB	25	NCH	33
*NADI	105	*SLZZI	106	*APDU	107	*ASI	110	*IFREU	111	*IB3	112
GAIN	113	*IF2	253	ALZZ	254	CRLB	262	*IZ4	270	IACDCI	271
*K	277	*YEND	300	*NAUO	301	*LTRW	302	*ITYPE	303	*ID1	304
XLUZ	305	*NLRU	313	IACDCO	314	PDIIZ	322	XLZZ	330	*AA1	336
*IZ1	337	*IH4	340	XLUZI	341	*D2	347	*NAU	350	*NLRURT	351
*IB4	352	CSM	353	XLZZI	361	*IF3	367	*NPDI	370	*NACDCI	371
*M	372	*ID2	373	VUH	374	*IH1	402	*J	403	*MBLANK	404
*XEND	405	*NACDCI	406	*SLUV	407	*NPDC	410	*NSI	411	*LIRA	412
.S0007	413	*D1	414	*SSZ	415	.S0006	416	*B14	417	VK	420
*SVRI	426	.S0005	427	*IB1	430	PT	431	.S0004	657	*IZ2	660
*SLZV	661	.S0003	662	*NSIG	663	.S0002	664	.S0001	665	.S0000	666
PWR	667	CRUB	675	*SVRO	703	*SLOVI	704	*XCOWF	705	*NGUI	706
*XAD1	707	*LSAP	710	*IF4	711	*NDUM	712	*NCARD	713	*IN	714
*DUM	715	*C2	716	*SLZVI	717	*NAI	720	*LIRZ	721	LRU	722
.S0016	1150	.S0015	1151	*ABLANK	1152	.S0014	1153	*MAXRT	1154	*SQUAN	115

AFAL-TR-76-120

MAIN. LNL6H1.FOR FORTRAN V.4(210)-2 /KI 21-APR-75 11:38 PAGE 1-1

*ID3	1156	*AADO	1157	.S0013	1160	*IF2	1161	S11Z	1162	.S0012	1170
*SLZ	1171	*XIDENT	1172	*LTRS	1173	MODCMT	1174	.S0011	13376	*XLIFZ	13377
XLRU	13400	.S0010	13405	*XSYS	13406	CRUNK	13407	XLDV	13414	*SSCC	13422
*L	13423	IB	13424	*IB2	13425	*IF1	13426	*I	13427	*LIRL	13430
*IZ3	13431	AO1Z	13432	XLOTV	13440	XLZV	13446	*CI	13454	*SOVI	13455
*SLUZ	13456	A11Z	13457	QNAI	13465	XLZTV	13473	QNSI	13501	*LIRI	13507
*XAO	13510	*SLZZ	13511								

# TEMPORARIES

.00000	14273	.00001	14274	.00002	14275	.00003	14276	.00004	14277	.00005	14300
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MAIN. ( NO ERRORS DETECTED )



ITPDI LNL6H1.FOR FORTRAN V.4(210)-2 /K1 21-APR-75 11:38 PAGE 1

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00001      FUNCTION ITPDI(A,B,C,D,W,X,Y,Z,I,J)
00002      UP=(W*C)/(X+C)
00003      DOWN=(Y*C)/(Z+C)
00004      IF(UP-A)3,1,1
00005      1 IF(DOWN-B)2,2,3
00006      2 IF(((UP+UP)/C)-D)6,6,3
00007      6 IF(((DOWN+DOWN)/C)-D)7,7,3
00008      7 ITPDI=0
00009      RETURN
00010      3 IF(J-1)4,4,5
00011      4 ITPDI=-1
00012      RETURN
00013      5 I=I+1
00014      ITPDI=1
00015      RETURN
00016      END

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## SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "%" NOT REFERENCED )

*Z	1	*W	2	*UP	3	*B	4	*Y	5	*J	6
*DOWN	7	*D	10	*A	11	*X	12	*ITPDI	13	*I	14
*C	15										

## TEMPORARIES

.ITP02 16 .ITP03 17 .ITP04 20 .ITP05 21

ITPDI ( NO ERRORS DETECTED )

AFAL-TR-76-120

ITADI LNL6H1.FOR FORTRAN V.4(210)-2 /K1 21-APR-75 11:38 PAGE 1

```
00001      FUNCTION ITADI(A,B,Y,Z,I,J)
00002      IF(Y-A)3,1,1
00003      1 IF(Z-B)2,2,3
00004      2 ITADI=0
00005      RETURN
00006      3 IF(J-1)4,4,5
00007      4 ITADI=-1
00008      RETURN
00009      5 I=I+1
00010      ITADI=1
00011      RETURN
00012      END
```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "\*" NOT REFERENCED )

*Z	1	*B	2	*Y	3	*J	4	*ITADI	5	*A	6
*I	7										

TEMPORARIES

.ITA02 10

ITADI ( NO ERRORS DETECTED )



```
ITP00  LNL6H1.FOR      FORTRAN V.4(210)-2 /KI  21-APR-75      11:38  PAGE 1
```

```

00001      FUNCTION ITPDU(A,B,C,X,Y,Z,I,J)
00002      IF(A=X)4,1,1
00003      1 IF(B=Y)2,2,4
00004      2 IF(C=Z)4,3,3
00005      3 ITPDU=0
00006      RETURN
00007      4 IF(J=I)5,5,6
00008      5 ITPDU=-1
00009      RETURN
00010      6 I=I+1
00011      ITPDU=1
00012      RETURN
00013      END

```

## SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "&" NOT REFERENCED )

*Z	1	*B	2	*Y	3	*J	4	*A	5	*ITPDU	6
*X	7	*I	10	*C	11						

## TEMPORARIES

**.ITP02 12**

ITPDO ( NO ERRORS DETECTED )



AFAL-TR-76-120

ITADO LNL6H1.FOR FORTRAN V.4(210)-2 /K1 21-APR-75 11:38 PAGE 1

```

00001      FUNCTION ITADO(A,B,C,D,X,I,Z,I,J)
00002      IF(((A*Z)/(C+Z))-X)3,1,1
00003      1 IF(((B*Z)/(D+Z))-1)2,2,3
00004      2 ITADO=0
00005      RETURN
00006      3 IF(J-1)4,4,5
00007      4 ITADO=-1
00008      RETURN
00009      5 I=I+1
00010      ITADO=1
00011      RETURN
00012      END

```

SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "\*" NOT REFERENCED )

*Z	1	*B	2	*Y	3	*ITADO	4	*J	5	*D	6
*A	7	*X	10	*I	11	*C	12				

TEMPORARIES

.ITA02 13 .ITA03 14

ITADO [ NO ERRORS DETECTED ]

ITAI LNL6H1.FOR FORTRAN V.4(210)-2 /K1 21-APR-75 11:38 PAGE 1

```

00001      FUNCTION ITAI(A,B,C,D,E,L,U,V,Y,Z,M,I,J,K)
00002      DATA LTR/' '/
00003      IF(L-M)/13,12,13
00004      13 IF(L-LTR)9,12,9
00005      12 W=U*D
00006      X=V*D
00007      IF(D)2,9,2
00008      2 UP=((W+X)*C)/(C+Y)
00009      DOWN=(X*C)/(C+Y)
00010      IF(A-UP)4,3,3
00011      3 IF(B-DOWN)6,6,4
00012      4 IF(16-K)9,9,5
00013      5 K=K+1
00014      ITAI=1
00015      RETURN
00016      6 IF((W/(2.**Z))-((A-B)/(2.**E)))4,7,7
00017      7 IF((W-(UP-DOWN))-(W/(2.**Z)))8,8,4
00018      8 ITAI=0
00019      RETURN
00020      9 IF(J-1)10,10,11
00021      10 ITAI=-1
00022      RETURN
00023      11 I=I+1
00024      K=1
00025      ITAI=1
00026      RETURN
00027      END

```

## SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "\*" NOT REFERENCED )

*Z	1	*W	2	*K	3	*E	4	*UP	5	*B	6
*Y	7	*V	10	*M	11	*J	12	*LTR	13	*DOWN	14
*D	15	*A	16	*ITAI	17	*X	20	*U	21	*L	22
*I	23	*C	24								

## TEMPORARIES

.ITAI6 25 .ITAI2 26 .ITAI3 27 .ITAI4 30

ITAI ( NO ERRORS DETECTED )



ITAO LNL6H1.FOM FORTRAN V.4(210)-2 /KI 21-APR-75 11:38 PAGE 1

```

00001      FUNCTION ITAU(A,B,C,D,K,W,X,Y,Z,L,I,J)
00002      DATA LTR/' '/
00003      IF(K=L)9,8,9
00004      9 IF(K=LTR)5,8,5
00005      8 UP=(A*Y)/(C+Y)
00006      DOWN=(B*Y)/(C+Y)
00007      IF(UP=(W+X))5,1,1
00008      1 IF(DOWN=X)2,2,5
00009      2 IF((W/(2.*Z))-((A-B)/(2.*D)))5,3,3
00010      3 IF(((A-B)-(UP-DOWN))-((K)/(2.*Z)))4,4,5
00011      4 IIAU=0
00012      RETURN
00013      5 IF(J=1)7,7,6
00014      6 I=I+1
00015      ITAU=1
00016      RETURN
00017      7 ITAU=-1
00018      RETURN
00019      END

```

## SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "\*" NOT REFERENCED )

*Z	1	*W	2	*K	3	*UP	4	*B	5	*I	6
*J	7	*LTR	10	*DOWN	11	*D	12	*A	13	*ITAU	14
*X	15	*L	16	*1	17	*C	20				

## TEMPORARIES

.IIA16 21 .ITA02 22 .ITA03 23

ITAO [ NO ERRORS DETECTED ]



ITS1 LNL6H1.FOR FORTRAN V.4(210)-2 /KI 21-APR-75 11:38 PAGE 1

```

00001      FUNCTION ITS1(A,B,C,X,Y,Z,I,J)
00002      IF(A-X)4,1,1
00003      1 IF(C-Z)4,2,2
00004      2 IF((X/(B+Y))-.00025)4,3,3
00005      3 ITS1=0
00006      RETURN
00007      4 IF(J-I)6,6,5
00008      5 I=I+1
00009      ITS1=1
00010      RETURN
00011      6 ITS1=-1
00012      RETURN
00013      END

```

## SUBPROGRAMS CALLED

SCALARS AND ARRAYS [ "\*" NO EXPLICIT DEFINITION - "?" NOT REFERENCED ]

*Z	1	*B	2	*Y	3	*J	4	*A	5	*ITS1	6
*X	7	*I	10	*C	11						

## TEMPORARIES

.ITS02 12 .ITS03 13

ITS1 [ NO ERRORS DETECTED ]

---

10

1

5

LOC LNL6H1.FOR FORTRAN V.4(210)-2 /K1 21-APR-75 11:38 PAGE 1

```

00001      FUNCTION LOC(I,J,K,L,M,N,JJ)
00002      REAL L,L
00003      IF(I-L)4,1,4
00004      1 JJ=K
00005      J=J-1
00006      IF(J)3,2,3
00007      2 LOC=0
00008      RETURN
00009      3 N=N+1
00010      K=1
00011      LOC=1
00012      RETURN
00013      4 IF(M-K)5,5,6
00014      5 LOC=-1
00015      RETURN
00016      6 K=K+1
00017      LOC=1
00018      RETURN
00019      END

```

## SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "%" NOT REFERENCED )

*JJ	1	*N	2	*K	3	*LOC	4	*M	5	*J	6
L	7	1	10								

## TEMPORARIES

.LOC02 11

LOC ( NO ERRORS DETECTED )



EVAL LNL6H1.FOR FORTRAN V.4(210)-2 /K1 21-APR-75 11:38 PAGE 1

```

00001      FUNCTION EVAL(I,J,K,L)
00002      DATA LTR1,LTR2,LTR3,LTR4,LTR5,LTR6,LTR7,LTR8,LTR9,LTR0,LTRK,LTRM,
00003      1LTRI,LTR,MIN/'1','2','3','4','5','6','7','8','9','0','K','M','I',
00004      2','.','-'/'
00005      Q=1.
00006      M=0
00007      W=100.
00008      X=10.
00009      Y=1.
00010      IF(L-LTRI)2,1,2
00011      1 EVAL=10.**12.
00012      RETURN
00013      2 IF(I=MIN)130,133,130
00014      130 IF(J=MIN)131,133,131
00015      131 IF(K=MIN)132,133,132
00016      132 IF(L=MIN)134,133,134
00017      133 Q=-1.
00018      134 IF(I-LTR)4,3,4
00019      3 A=0.
00020      W=0.
00021      X=.1
00022      Y=.01
00023      Z=.001
00024      M=1
00025      GO TO 30
00026      4 IF(I-LTR0)6,5,6
00027      5 A=0.
00028      GO TO 30
00029      6 IF(I-LTR1)8,7,8
00030      7 A=1.
00031      GO TO 30
00032      8 IF(I-LTR2)10,9,10
00033      9 A=2.
00034      GO TO 30
00035      10 IF(I-LTR3)12,11,12
00036      11 A=3.
00037      GO TO 30
00038      12 IF(I-LTR4)14,13,14
00039      13 A=4.
00040      GO TO 30
00041      14 IF(I-LTR5)16,15,16
00042      15 A=5.
00043      GO TO 30
00044      16 IF(I-LTR6)18,17,18
00045      17 A=6.
00046      GO TO 30
00047      18 IF(I-LTR7)20,19,20
00048      19 A=7.
00049      GO TO 30
00050      20 IF(I-LTR8)22,21,22
00051      21 A=8.
00052      GO TO 30
00053      22 IF(I-LTR9)24,23,24
00054      23 A=9.
00055      30 IF(J-LTR)32,31,32
00056      31 W=1.

```

EVAL LNL6H1.FOR FORTRAN V.4(210)-2 /K1 21-APR-75 11:38 PAGE 1-1

```

00057      B=0.
00058      A=0.
00059      Y=.1
00060      Z=.01
00061      M=1
00062      GU TO 60
00063      32 IF(J-LTR0)34,33,34
00064      33 B=0.
00065      GU TO 60
00066      34 IF(J-LTR1)36,35,36
00067      35 B=1.
00068      GU TO 60
00069      36 IF(J-LTR2)38,37,38
00070      37 B=2.
00071      GU TO 60
00072      38 IF(J-LTR3)40,39,40
00073      39 B=3.
00074      GU TO 60
00075      40 IF(J-LTR4)42,41,42
00076      41 B=4.
00077      GU TO 60
00078      42 IF(J-LTR5)44,43,44
00079      43 B=5.
00080      GU TO 60
00081      44 IF(J-LTR6)46,45,46
00082      45 B=6.
00083      GU TO 60
00084      46 IF(J-LTR7)48,47,48
00085      47 B=7.
00086      GU TO 60
00087      48 IF(J-LTR8)50,49,50
00088      49 B=8.
00089      GU TO 60
00090      50 IF(J-LTR9)52,51,52
00091      51 B=9.
00092      60 IF(K-LTR)62,61,62
00093      61 W=10.
00094      X=1.
00095      C=0.
00096      I=0.
00097      Z=.1
00098      M=1
00099      GU TO 90
00100      62 IF(K-LTR0)64,63,64
00101      63 C=0.
00102      GU TO 90
00103      64 IF(K-LTR1)66,65,66
00104      65 C=1.
00105      GU TO 90
00106      66 IF(K-LTR2)68,67,68
00107      67 C=2.
00108      GU TO 90
00109      68 IF(K-LTR3)70,69,70
00110      69 C=3.
00111      GU TO 90
00112      70 IF(K-LTR4)72,71,72

```

AFAL-TR-76-120

EVAL	LNLMH1.FOR	FORTRAN V.4(210)-2 /KI	21-APR-75	11:38	PAGE 1-2
00113	71 C=4.				
00114	GO TO 90				
00115	72 IF(K-LTR5)74,73,74				
00116	73 C=5.				
00117	GO TO 90				
00118	74 IF(K-LTR6)76,75,76				
00119	75 C=6.				
00120	GO TO 90				
00121	76 IF(K-LTR7)78,77,78				
00122	77 C=7.				
00123	GO TO 90				
00124	78 IF(K-LTR8)80,79,80				
00125	79 C=8.				
00126	GO TO 90				
00127	80 IF(K-LTR9)83,81,63				
00128	81 C=9.				
00129	90 IF(L-LTRM)92,91,92				
00130	91 D=0.				
00131	Z=0.				
00132	E=10.**6.				
00133	GO TO 120				
00134	92 IF(L-LTRK)94,93,94				
00135	93 D=0.				
00136	Z=0.				
00137	E=1000.				
00138	GO TO 120				
00139	94 IF(L-LTR)96,95,96				
00140	95 D=0.				
00141	Z=0.				
00142	E=1.				
00143	GO TO 120				
00144	96 IF(L-LTR0)98,97,98				
00145	97 D=0.				
00146	GO TO 116				
00147	98 IF(L-LTR1)100,99,100				
00148	99 D=1.				
00149	GO TO 116				
00150	100 IF(L-LTR2)102,101,102				
00151	101 D=2.				
00152	GO TO 116				
00153	102 IF(L-LTR3)104,103,104				
00154	103 D=3.				
00155	GO TO 116				
00156	104 IF(L-LTR4)106,105,106				
00157	105 D=4.				
00158	GO TO 116				
00159	106 IF(L-LTR5)108,107,108				
00160	107 D=5.				
00161	GO TO 116				
00162	108 IF(L-LTR6)110,109,110				
00163	109 D=6.				
00164	GO TO 116				
00165	110 IF(L-LTR7)112,111,112				
00166	111 D=7.				
00167	GO TO 116				
00168	112 IF(L-LTR8)114,113,114				



AFAL-TR-76-120

EVAL    LNL6H1.FOR    FORTRAN V.4(210)-2 /K1    21-APR-75    11:38    PAGE 1-3

```

00169      113 D=8.
00170      GO TO 116
00171      114 IF(L-LTR9)97,115,97
00172      115 D=9.
00173      116 IF(M=1)116,117,118
00174      117 F=1.
00175      GO TO 120
00176      118 E=1.
00177      W=1000.
00178      A=100.
00179      Y=10.
00180      Z=1.
00181      120 EVAL=((A**)+(E**X)+(C*Y)+(D*Z))*F*G
00182      RETURN
00183      END

```

#### SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "%" NOT REFERENCED )

*LIRK	1	*MIN	2	*Z	3	*LIR7	4	*W	5	*LTR0	6
*G	7	*EVAL	10	*K	11	*LIR6	12	*E	13	*B	14
*LIR1	15	*LIR5	16	*Y	17	*M	20	*LIR4	21	*J	22
*LIR	23	*D	24	*A	25	*LIR3	26	*LIR8	27	*X	30
*LIR9	31	*LIR2	32	*L	33	*I	34	*LIR8	35	*C	36
*LIR1	37										

#### TEMPORARIES

.EVA16 40    .EVA02 41    .EVA03 42

EVAL    ( NO ERRORS DETECTED )

3. PROGRAM TAPEFILE (TAPFIL)

MAIN. LNMK30.FOR FORTRAN V.4(210)-2 /K1 30-APR-75 14159 PAGE 1

```

00001 C PROGRAM TAPEFILE TO CREATE A FORMATTED MAG TAPE FOR SIAAP & INFACE
00002     DIMENSION I(80)
00003     DATA XEND,LTRZ,XNEW,XADD/'END ','Z','NEW ','ADD '/
00004     REWIND 1
00005     LPLACE=1
00006     20 READ(3,160)XJ
00007     160 FORMAT(A4)
00008     IF(XJ.EQ.XNEW)GOTO 30
00009     IF(XJ.EQ.XADD)GOTO 150
00010     IF(XJ.EQ.XEND)GOTO 50
00011     WRITE(5,40)
00012     40 FORMAT(//1H1,21H CONTROL CARD MISSING)
00013     GOTO 50
00014     30 READ(3,10)XID
00015     10 FORMAT(A4)
00016     WRITE(1,170)XID
00017     170 FORMAT(A4)
00018     100 READ(3,60)I
00019     60 FORMAT(80A1)
00020     IF(I(1).EQ.LTRZ)GOTO 70
00021     WRITE(1,80)(I(L),L = 1,45)
00022     80 FORMAT(45A1)
00023     WRITE(1,90)(I(L),L = 46,80)
00024     90 FORMAT(35A1)
00025     GOTO 100
00026     70 WRITE(1,140)I(1)
00027     140 FORMAT(A1)
00028     WRITE(1,110)
00029     110 FORMAT(3HEND)
00030     LPLACE=2
00031     GOTO 20
00032     150 IF(LPLACE=2)120,130,120
00033     120 READ(1,180)XID
00034     180 FORMAT(A4)
00035     IF(XID.EQ.XEND)GOTO 130
00036     READ(1,190)L
00037     190 FORMAT(A1)
00038     IF(L.EQ.LTRZ)GOTO 120
00039     130 BACKSPACE 1
00040     GOTO 30
00041     50 REWIND 1
00042     WRITE(5,200)
00043     200 FORMAT(//1' NORMAL EOJ')
00044     STOP
00045     END

```

## SUBPRUGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "&" NOT REFERENCED )

*XJ	1	*LPLACE	2	*XADD	3	*XID	4	*XEND	5	*XNEW	6
.50001	7	.80000	10	*LTRZ	11	*L	12	1	13		



AFAL-TR-76-120

MAIN. LNMK30.FOR      FORTRAN V.4(210)-2 /KI      30-APR-75      14:59      PAGE 1-1

TEMPORARIES

MAIN. ( NO ERRORS DETECTED )

AFAL-TR-76-120

#### 4. PROGRAM TAPEPRINT (TAPRNT)

MAIN. LNL6H7.FOR FORTRAN V.4(210)-2 /KI 21-APR-75 12:32 PAGE 1

```

00001 C PROGRAM TAPEPRINT TO PRINT SIGNAL FLOW TAPE
00002     IMPLICIT INTEGER(A-Z)
00003     DIMENSION I(80)
00004     DATA EN,ALTRZ/'END ','Z' '/'
00005     REWIND 1
00006     10 READ(1,20,END=100)XID
00007     20 FORMAT(A4)
00008     WRITE(5,30)XID
00009     30 FORMAT(1H,A4)
00010     70 IF(XID.EQ.ALTRZ)GOTO 10
00011     IF(XID.EQ.EN)GOTO 100
00012     READ(1,40,END=100)(I(L),L = 1,45)
00013     40 FORMAT(45A1)
00014     IF(I(1).EQ.ALTRZ)GOTO 80
00015     READ(1,50,END=100)(I(L),L = 46,80)
00016     50 FORMAT(35A1)
00017     WRITE(5,60)(I(L),L = 1,80)
00018     60 FORMAT(1H ,80A1)
00019     GOTO 70
00020     80 WRITE(5,90)
00021     90 FORMAT(1X,'Z')
00022     GOTO 10
00023     100 REWIND 1
00024     WRITE(5,110)
00025     110 FORMAT(' NORMAL END'//)
00026     STOP
00027     END

```

## SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "&" NOT REFERENCED )

*EN	1	*XID	2	.S0002	3	.S0001	4	.S0000	5	*ALTRZ	6
*L	7	I	10								

## TEMPORARIES

MAIN. ( NO ERRORS DETECTED )



AFAL-TR-76-120

5. PROGRAM SIGNALCOUNT (SIFCNT)

MAIN. LNMK3T.FOR FORTRAN V.4(210)-2 /KI 1-MAY-75 13:35 PAGE 1

```

00001 C PROGRAM SIGNALCOUNT TO COUNT THE RECORDS ON THE SIGNAL TAPE
00002 DATA XEND,XZ/'END','Z' '/'
00003 DD 70 N = 1,3
00004 READ(1,10)TAP,ISYS
00005 10 FORMAT(A3,A1)
00006 IF(TAP.EQ,XEND)GOTO 80
00007 ICOUNT=0
00008 20 READ(1,30)FST
00009 30 FORMAT(A3)
00010 IF(FST.EQ,XZ)GOTO 50
00011 ICOUNT=ICOUNT+1
00012 READ(1,40)SEC
00013 40 FORMAT(A3)
00014 GOTO 20
00015 50 WRITE(5,60)ISYS,ICOUNT
00016 60 FORMAT (26H SIGNAL COUNT FOR SYSTEM ,A1,3H = ,15//)
00017 70 CONTINUE
00018 80 REWIND 1
00019 WRITE(5,90)
00020 90 FORMAT(12X,'NORMAL END')
00021 STOP
00022 END

```

## SUBPROGRAMS CALLED

SCALARS AND ARRAYS ( "\*" NO EXPLICIT DEFINITION - "%" NOT REFERENCED )

NAME	1	*FST	2	*XZ	3	*XEND	4	*ICOUNT	5	*TAP	6
*SEC	7		.S0000	10	*ISYS	11					

## TEMPORARIES

MAIN. [ NO ERRORS DETECTED ]

AFAL-TR-76-120

APPENDIX B  
DATA FLOW LISTINGS



AFAL-TR-76-120

1. SYSTEM "A" LISTING

SYSA				LW16576				COMPUTER I/O					
CC18000CENTRAL COMPUTER OUICOMP													1
CIT1	1CITS	OUTPUT	1	COMP	LA10	5	10	0	0	DC		1	
CIT1	2CITS	OUTPUT	2	COMP	LA10	5	10	0	0	DC		1	
CIT1	3CITS	OUTPUT	3	COMP	LA10	5	10	0	0	DC		1	
CIT1	4CITS	OUTPUT	4	COMP	LA10	5	10	0	0	DC		1	
CIT1	5CITS	OUTPUT	5	COMP	LA10	5	10	0	0	DC		1	
CIT1	6CITS	OUTPUT	6	COMP	LA10	5	10	0	0	DC		1	
CIT1	7CITS	OUTPUT	7	COMP	LA10	5	10	0	0	DC		1	
CIT1	8CITS	OUTPUT	8	COMP	LA10	5	10	0	0	DC		1	
CIT1	9CITS	OUTPUT	9	COMP	LA10	5	10	0	0	DC		1	
CIT1	10CITS	OUTPUT	10	COMP	LA10	5	10	0	0	DC		1	
CIT1	11CITS	OUTPUT	11	COMP	LA10	5	10	0	0	DC		1	
CIT1	12CITS	OUTPUT	12	COMP	LA10	5	10	0	0	DC		1	
CIT1	13CITS	OUTPUT	13	COMP	LA10	5	10	0	0	DC		1	
CIT1	14CITS	OUTPUT	14	COMP	LA10	5	10	0	0	DC		1	
CIT1	15CITS	OUTPUT	15	COMP	LA10	5	10	0	0	DC		1	
CIT1	16CITS	OUTPUT	16	COMP	LA10	5	10	0	0	DC		1	
CIT1	17CITS	OUTPUT	17	COMP	LA10	5	10	0	0	DC		1	
CIT1	18CITS	OUTPUT	18	COMP	LD 1	5	5	0	0	1		1	
CIT1	19CITS	OUTPUT	19	COMP	LD 1	5	5	0	0	1		1	
CIT1	20CITS	OUTPUT	20	COMP	LD 1	5	5	0	0	1		1	
CIT1	21CITS	OUTPUT	21	COMP	LD 1	5	5	0	0	1		1	
CIT1	22CITS	OUTPUT	22	COMP	LD 1	5	5	0	0	1		1	
CIT1	23CITS	OUTPUT	23	COMP	LD 1	5	5	0	0	1		1	
CIT1	24CITS	OUTPUT	24	COMP	LD 1	5	5	0	0	1		1	
CIT1	25CITS	OUTPUT	25	COMP	LD 1	5	5	0	0	1		1	
CIT1	26CITS	OUTPUT	26	COMP	LD 1	5	5	0	0	1		1	
CIT1	27CITS	OUTPUT	27	COMP	LD 1	5	5	0	0	1		1	
CIT1	28CITS	OUTPUT	28	COMP	LD 1	5	5	0	0	1		1	
CIT1	29CITS	OUTPUT	29	COMP	LD 1	5	5	0	0	1		1	
CIT1	30CITS	OUTPUT	30	COMP	LD 1	5	5	0	0	1		1	
CIT1	31CITS	OUTPUT	31	COMP	LD 1	5	5	0	0	1		1	
CIT1	32CITS	OUTPUT	32	COMP	LD 1	5	5	0	0	1		1	
CIT1	33CITS	OUTPUT	33	COMP	LD 1	5	5	0	0	1		1	
CIT1	34CITS	OUTPUT	34	COMP	LW	SERIAL DIGITAL				SERIAL DIGITAL	1		
CIT1	35CITS	OUTPUT	35	COMP	LW	SERIAL DIGITAL				SERIAL DIGITAL	1		
CIT2	1CITS	OUTPUT	1	COMP	LA10	5	10	0	0	DC		1	
CIT2	2CITS	OUTPUT	2	COMP	LA10	5	10	0	0	DC		1	
CIT2	3CITS	OUTPUT	3	COMP	LA10	5	10	0	0	DC		1	
CIT2	4CITS	OUTPUT	4	COMP	LA10	5	10	0	0	DC		1	
CIT2	5CITS	OUTPUT	5	COMP	LA10	5	10	0	0	DC		1	
CIT2	6CITS	OUTPUT	6	COMP	LA10	5	10	0	0	DC		1	
CIT2	7CITS	OUTPUT	7	COMP	LA10	5	10	0	0	DC		1	
CIT2	8CITS	OUTPUT	8	COMP	LA10	5	10	0	0	DC		1	
CIT2	9CITS	OUTPUT	9	COMP	LA10	5	10	0	0	DC		1	
CIT2	10CITS	OUTPUT	10	COMP	LA10	5	10	0	0	DC		1	
CIT2	11CITS	OUTPUT	11	COMP	LA10	5	10	0	0	DC		1	
CIT2	12CITS	OUTPUT	12	COMP	LA10	5	10	0	0	DC		1	
CIT2	13CITS	OUTPUT	13	COMP	LA10	5	10	0	0	DC		1	
CIT2	14CITS	OUTPUT	14	COMP	LA10	5	10	0	0	DC		1	
CIT2	15CITS	OUTPUT	15	COMP	LA10	5	10	0	0	DC		1	
CIT2	16CITS	OUTPUT	16	COMP	LA10	5	10	0	0	DC		1	
CIT2	17CITS	OUTPUT	17	COMP	LA10	5	10	0	0	DC		1	
CIT2	18CITS	OUTPUT	18	COMP	LA10	5	10	0	0	DC		1	
CIT2	19CITS	OUTPUT	19	COMP	LA10	5	10	0	0	DC		1	
CIT2	20CITS	OUTPUT	20	COMP	LA10	5	10	0	0	DC		1	
CIT2	21CITS	OUTPUT	21	COMP	LD 1	5	5	0	0	1		1	
CIT2	22CITS	OUTPUT	22	COMP	LD 1	5	5	0	0	1		1	
CIT2	23CITS	OUTPUT	23	COMP	LD 1	5	5	0	0	1		1	

C112	24C11S	OUTPUT	24	COMP	LD	1	5	5	0	0	1	1
C112	25C11S	OUTPUT	25	COMP	LD	1	5	5	0	0	1	1
C112	26C11S	OUTPUT	26	COMP	LD	1	5	5	0	0	1	1
C112	27C11S	OUTPUT	27	COMP	LD	1	5	5	0	0	1	1
C112	28C11S	OUTPUT	28	COMP	LD	1	5	5	0	0	1	1
C112	29C11S	OUTPUT	29	COMP	LD	1	5	5	0	0	1	1
C112	30C11S	OUTPUT	30	COMP	LD	1	5	5	0	0	1	1
C112	31C11S	OUTPUT	31	COMP	LD	1	5	5	0	0	1	1
C112	32C11S	OUTPUT	32	COMP	LD	1	5	5	0	0	1	1
C112	33C11S	OUTPUT	33	COMP	LD	1	5	5	0	0	1	1
C112	34C11S	OUTPUT	34	COMP	LD	1	5	5	0	0	1	1
C112	35C11S	OUTPUT	35	COMP	LD	1	5	5	0	0	1	1
C112	36C11S	OUTPUT	36	COMP	LD	1	5	5	0	0	1	1
C112	37C11S	OUTPUT	37	COMP	LD	1	5	5	0	0	1	1
C112	38C11S	OUTPUT	38	COMP	LD	1	5	5	0	0	1	1
C112	39C11S	OUTPUT	39	COMP	LW	SERIAL DIGITALSERIAL DIGITAL						1
C112	40C11S	OUTPUT	40	COMP	LW	SERIAL DIGITALSERIAL DIGITAL						1
C113	1C11S	OUTPUT	1	COMP	LA10	5	10	0	0	0	DC	1
C113	2C11S	OUTPUT	2	COMP	LA10	5	10	0	0	0	DC	1
C113	3C11S	OUTPUT	3	COMP	LA10	5	10	0	0	0	DC	1
C113	4C11S	OUTPUT	4	COMP	LA10	5	10	0	0	0	DC	1
C113	5C11S	OUTPUT	5	COMP	LA10	5	10	0	0	0	DC	1
C113	6C11S	OUTPUT	6	COMP	LA10	5	10	0	0	0	DC	1
C113	7C11S	OUTPUT	7	COMP	LA10	5	10	0	0	0	DC	1
C113	8C11S	OUTPUT	8	COMP	LA10	5	10	0	0	0	DC	1
C113	9C11S	OUTPUT	9	COMP	LA10	5	10	0	0	0	DC	1
C113	10C11S	OUTPUT	10	COMP	LA10	5	10	0	0	0	DC	1
C113	11C11S	OUTPUT	11	COMP	LA10	5	10	0	0	0	DC	1
C113	12C11S	OUTPUT	12	COMP	LA10	5	10	0	0	0	DC	1
C113	13C11S	OUTPUT	13	COMP	LA10	5	10	0	0	0	DC	1
C113	14C11S	OUTPUT	14	COMP	LA10	5	10	0	0	0	DC	1
C113	15C11S	OUTPUT	15	COMP	LA10	5	10	0	0	0	DC	1
C113	16C11S	OUTPUT	16	COMP	LA10	5	10	0	0	0	DC	1
C113	17C11S	OUTPUT	17	COMP	LA10	5	10	0	0	0	DC	1
C113	18C11S	OUTPUT	18	COMP	LA10	5	10	0	0	0	DC	1
C113	19C11S	OUTPUT	19	COMP	LA10	5	10	0	0	0	DC	1
C113	20C11S	OUTPUT	20	COMP	LA10	5	10	0	0	0	DC	1
C113	21C11S	OUTPUT	21	COMP	LA10	5	10	0	0	0	DC	1
C113	22C11S	OUTPUT	22	COMP	LA10	5	10	0	0	0	DC	1
C113	23C11S	OUTPUT	23	COMP	LA10	5	10	0	0	0	DC	1
C113	24C11S	OUTPUT	24	COMP	LA10	5	10	0	0	0	DC	1
C113	25C11S	OUTPUT	25	COMP	LA10	5	10	0	0	0	DC	1
C113	26C11S	OUTPUT	26	COMP	LA10	5	10	0	0	0	DC	1
C113	27C11S	OUTPUT	27	COMP	LA10	5	10	0	0	0	DC	1
C113	28C11S	OUTPUT	28	COMP	LA10	5	10	0	0	0	DC	1
C113	29C11S	OUTPUT	29	COMP	LA10	5	10	0	0	0	DC	1
C113	30C11S	OUTPUT	30	COMP	LA10	5	10	0	0	0	DC	1
C113	31C11S	OUTPUT	31	COMP	LA10	5	10	0	0	0	DC	1
C113	32C11S	OUTPUT	32	COMP	LA10	5	10	0	0	0	DC	1
C113	33C11S	OUTPUT	33	COMP	LA10	5	10	0	0	0	DC	1
C113	34C11S	OUTPUT	34	COMP	LA10	5	10	0	0	0	DC	1
C113	35C11S	OUTPUT	35	COMP	LA10	5	10	0	0	0	DC	1
C113	36C11S	OUTPUT	36	COMP	LA10	5	10	0	0	0	DC	1
C113	37C11S	OUTPUT	37	COMP	LA10	5	10	0	0	0	DC	1
C113	38C11S	OUTPUT	38	COMP	LA10	5	10	0	0	0	DC	1
C113	39C11S	OUTPUT	39	COMP	LD	1	5	5	0	0	1	1
C113	40C11S	OUTPUT	40	COMP	LD	1	5	5	0	0	1	1
C113	41C11S	OUTPUT	41	COMP	LD	1	5	5	0	0	1	1
C113	42C11S	OUTPUT	42	COMP	LD	1	5	5	0	0	1	1
C113	43C11S	OUTPUT	43	COMP	LD	1	5	5	0	0	1	1



CIT3 44CITS OUTPUT 44	COMP	LD 1 5 5 0 0 1	1
CIT3 45CITS OUTPUT 45	COMP	LD 1 5 5 0 0 1	1
CIT3 46CITS OUTPUT 46	COMP	LD 1 5 5 0 0 1	1
CIT3 47CITS OUTPUT 47	COMP	LD 1 5 5 0 0 1	1
CIT3 48CITS OUTPUT 48	COMP	LD 1 5 5 0 0 1	1
CIT3 49CITS OUTPUT 49	COMP	LD 1 5 5 0 0 1	1
CIT3 50CITS OUTPUT 50	COMP	LD 1 5 5 0 0 1	1
CIT3 51CITS OUTPUT 51	COMP	LD 1 5 5 0 0 1	1
CIT3 52CITS OUTPUT 52	COMP	LD 1 5 5 0 0 1	1
CIT3 53CITS OUTPUT 53	COMP	LD 1 5 5 0 0 1	1
CIT3 54CITS OUTPUT 54	COMP	LD 1 5 5 0 0 1	1
CIT3 55CITS OUTPUT 55	COMP	LD 1 5 5 0 0 1	1
CIT3 56CITS OUTPUT 56	COMP	LD 1 5 5 0 0 1	1
CIT3 57CITS OUTPUT 57	COMP	LD 1 5 5 0 0 1	1
CIT3 58CITS OUTPUT 58	COMP	LD 1 5 5 0 0 1	1
CIT3 59CITS OUTPUT 59	COMP	LD 1 5 5 0 0 1	1
CIT3 60CITS OUTPUT 60	COMP	LD 1 5 5 0 0 1	1
CIT3 61CITS OUTPUT 61	COMP	LD 1 5 5 0 0 1	1
CIT3 62CITS OUTPUT 62	COMP	LD 1 5 5 0 0 1	1
CIT3 63CITS OUTPUT 63	COMP	LD 1 5 5 0 0 1	1
CIT3 64CITS OUTPUT 64	COMP	LD 1 5 5 0 0 1	1
CIT3 65CITS OUTPUT 65	COMP	LD 1 5 5 0 0 1	1
CIT3 66CITS OUTPUT 66	COMP	LD 1 5 5 0 0 1	1
CIT3 67CITS OUTPUT 67	COMP	LD 1 5 5 0 0 1	1
CIT3 68CITS OUTPUT 68	COMP	LD 1 5 5 0 0 1	1
CIT3 69CITS OUTPUT 69	COMP	LD 1 5 5 0 0 1	1
CIT3 70CITS OUTPUT 70	COMP	LD 1 5 5 0 0 1	1
CIT3 71CITS OUTPUT 71	COMP	LD 1 5 5 0 0 1	1
CIT3 72CITS OUTPUT 72	COMP	LD 1 5 5 0 0 1	1
CIT3 73CITS OUTPUT 73	COMP	LD 1 5 5 0 0 1	1
CIT3 74CITS OUTPUT 74	COMP	LW SERIAL DIGITALSERIAL DIGITAL	1
CIT3 75CITS OUTPUT 75	COMP	LW SERIAL DIGITALSERIAL DIGITAL	1
CIT3 76CITS OUTPUT 76	COMP	LW SERIAL DIGITALSERIAL DIGITAL	1
CIT3 77CITS OUTPUT 77	COMP	LW SERIAL DIGITALSERIAL DIGITAL	1
CIT4 1CITS OUTPUT 1	COMP	LA10 5 10 0 0 DC	1
CIT4 2CITS OUTPUT 2	COMP	LA10 5 10 0 0 DC	1
CIT4 3CITS OUTPUT 3	COMP	LA10 5 10 0 0 DC	1
CIT4 4CITS OUTPUT 4	COMP	LA10 5 10 0 0 DC	1
CIT4 5CITS OUTPUT 5	COMP	LA10 5 10 0 0 DC	1
CIT4 6CITS OUTPUT 6	COMP	LA10 5 10 0 0 DC	1
CIT4 7CITS OUTPUT 7	COMP	LA10 5 10 0 0 DC	1
CIT4 8CITS OUTPUT 8	COMP	LA10 5 10 0 0 DC	1
CIT4 9CITS OUTPUT 9	COMP	LA10 5 10 0 0 DC	1
CIT4 10CITS OUTPUT 10	COMP	LA10 5 10 0 0 DC	1
CIT4 11CITS OUTPUT 11	COMP	LA10 5 10 0 0 DC	1
CIT4 12CITS OUTPUT 12	COMP	LA10 5 10 0 0 DC	1
CIT4 13CITS OUTPUT 13	COMP	LA10 5 10 0 0 DC	1
CIT4 14CITS OUTPUT 14	COMP	LA10 5 10 0 0 DC	1
CIT4 15CITS OUTPUT 15	COMP	LA10 5 10 0 0 DC	1
CIT4 16CITS OUTPUT 16	COMP	LA10 5 10 0 0 DC	1
CIT4 17CITS OUTPUT 17	COMP	LA10 5 10 0 0 DC	1
CIT4 18CITS OUTPUT 18	COMP	LA10 5 10 0 0 DC	1
CIT4 19CITS OUTPUT 19	COMP	LA10 5 10 0 0 DC	1
CIT4 20CITS OUTPUT 20	COMP	LA10 5 10 0 0 DC	1
CIT4 21CITS OUTPUT 21	COMP	LA10 5 10 0 0 DC	1
CIT4 22CITS OUTPUT 22	COMP	LA10 5 10 0 0 DC	1
CIT4 23CITS OUTPUT 23	COMP	LA10 5 10 0 0 DC	1
CIT4 24CITS OUTPUT 24	COMP	LD 1 5 5 0 0 1	1
CIT4 25CITS OUTPUT 25	COMP	LD 1 5 5 0 0 1	1
CIT4 26CITS OUTPUT 26	COMP	LD 1 5 5 0 0 1	1

C114	27C11S	OUTPUT	27	COMP	LD	1	5	5	0	0	1	1
C114	28C11S	OUTPUT	28	COMP	LD	1	5	5	0	0	1	1
C114	29C11S	OUTPUT	29	COMP	LD	1	5	5	0	0	1	1
C114	30C11S	OUTPUT	30	COMP	LD	1	5	5	0	0	1	1
C114	31C11S	OUTPUT	31	COMP	LD	1	5	5	0	0	1	1
C114	32C11S	OUTPUT	32	COMP	LD	1	5	5	0	0	1	1
C114	33C11S	OUTPUT	33	COMP	LD	1	5	5	0	0	1	1
C114	34C11S	OUTPUT	34	COMP	LD	1	5	5	0	0	1	1
C114	35C11S	OUTPUT	35	COMP	LD	1	5	5	0	0	1	1
C114	36C11S	OUTPUT	36	COMP	LD	1	5	5	0	0	1	1
C114	37C11S	OUTPUT	37	COMP	LD	1	5	5	0	0	1	1
C114	38C11S	OUTPUT	38	COMP	LD	1	5	5	0	0	1	1
C114	39C11S	OUTPUT	39	COMP	LD	1	5	5	0	0	1	1
C114	40C11S	OUTPUT	40	COMP	LD	1	5	5	0	0	1	1
C114	41C11S	OUTPUT	41	COMP	LD	1	5	5	0	0	1	1
C114	42C11S	OUTPUT	42	COMP	LD	1	5	5	0	0	1	1
C114	43C11S	OUTPUT	43	COMP	LD	1	5	5	0	0	1	1
C114	44C11S	OUTPUT	44	COMP	LD	1	5	5	0	0	1	1
C114	45C11S	OUTPUT	45	COMP	LD	1	5	5	0	0	1	1
C114	46C11S	OUTPUT	46	COMP	LD							
C114	47C11S	OUTPUT	47	COMP	LD							
C115	1C11S	OUTPUT	1	COMP	LD							
C115	2C11S	OUTPUT	2	COMP	LD							
C115	3C11S	OUTPUT	3	COMP	LD							
C115	4C11S	OUTPUT	4	COMP	LD							
C115	5C11S	OUTPUT	5	COMP	LD							
C115	6C11S	OUTPUT	6	COMP	LD							
C115	7C11S	OUTPUT	7	COMP	LD							
C115	8C11S	OUTPUT	8	COMP	LD							
C115	9C11S	OUTPUT	9	COMP	LD							
C115	10C11S	OUTPUT	10	COMP	LD							
C115	11C11S	OUTPUT	11	COMP	LD							
C115	12C11S	OUTPUT	12	COMP	LD							
C115	13C11S	OUTPUT	13	COMP	LD							
C115	14C11S	OUTPUT	14	COMP	LD							
C115	15C11S	OUTPUT	15	COMP	LD							
C115	16C11S	OUTPUT	16	COMP	LD							
C115	17C11S	OUTPUT	17	COMP	LD							
C115	18C11S	OUTPUT	18	COMP	LD							
C115	19C11S	OUTPUT	19	COMP	LD							
C115	20C11S	OUTPUT	20	COMP	LD							
C115	21C11S	OUTPUT	21	COMP	LD							
C115	22C11S	OUTPUT	22	COMP	LD							
C115	23C11S	OUTPUT	23	COMP	LD							
C115	24C11S	OUTPUT	24	COMP	LD							
C115	25C11S	OUTPUT	25	COMP	LD							
C115	26C11S	OUTPUT	26	COMP	LD							
C115	27C11S	OUTPUT	27	COMP	LD							
C115	28C11S	OUTPUT	28	COMP	LD							
C115	29C11S	OUTPUT	29	COMP	LD							
C115	30C11S	OUTPUT	30	COMP	LD							
C115	31C11S	OUTPUT	31	COMP	LD							
C115	32C11S	OUTPUT	32	COMP	LD							
C115	33C11S	OUTPUT	33	COMP	LD							
C115	34C11S	OUTPUT	34	COMP	LD							
C115	35C11S	OUTPUT	35	COMP	LD							
C115	36C11S	OUTPUT	36	COMP	LD							
C115	37C11S	OUTPUT	37	COMP	LD							
C115	38C11S	OUTPUT	38	COMP	LD							
C116	1C11S	OUTPUT	1	COMP	LD							



CIT7 23CITS OUTPUT 23	COMP	LA10	5	10	0	0	DC	1
CIT7 24CITS OUTPUT 24	COMP	LA10	5	10	0	0	DC	1
CIT7 25CITS OUTPUT 25	COMP	LA10	5	10	0	0	DC	1
CIT7 26CITS OUTPUT 26	COMP	LA10	5	10	0	0	DC	1
CIT7 27CITS OUTPUT 27	COMP	LA10	5	10	0	0	DC	1
CIT7 28CITS OUTPUT 28	COMP	LA10	5	10	0	0	DC	1
CIT7 29CITS OUTPUT 29	COMP	LA10	5	10	0	0	DC	1
CIT7 30CITS OUTPUT 30	COMP	LD 1	5	5	0	0	1	1
CIT7 31CITS OUTPUT 31	COMP	LD 1	5	5	0	0	1	1
CIT7 32CITS OUTPUT 32	COMP	LD 1	5	5	0	0	1	1
CIT7 33CITS OUTPUT 33	COMP	LD 1	5	5	0	0	1	1
CIT7 34CITS OUTPUT 34	COMP	LD 1	5	5	0	0	1	1
CIT7 35CITS OUTPUT 35	COMP	LD 1	5	5	0	0	1	1
CIT7 36CITS OUTPUT 36	COMP	LD 1	5	5	0	0	1	1
CIT7 37CITS OUTPUT 37	COMP	LD 1	5	5	0	0	1	1
CIT7 38CITS OUTPUT 38	COMP	LD 1	5	5	0	0	1	1
CIT7 39CITS OUTPUT 39	COMP	LD 1	5	5	0	0	1	1
CIT7 40CITS OUTPUT 40	COMP	LD 1	5	5	0	0	1	1
CIT7 41CITS OUTPUT 41	COMP	LD 1	5	5	0	0	1	1
CIT7 42CITS OUTPUT 42	COMP	LD 1	5	5	0	0	1	1
CIT7 43CITS OUTPUT 43	COMP	LD 1	5	5	0	0	1	1
CIT7 44CITS OUTPUT 44	COMP	LD 1	5	5	0	0	1	1
CIT7 45CITS OUTPUT 45	COMP	LD 1	5	5	0	0	1	1
CIT7 46CITS OUTPUT 46	COMP	LD 1	5	5	0	0	1	1
CIT7 47CITS OUTPUT 47	COMP	LD 1	5	5	0	0	1	1
CIT7 48CITS OUTPUT 48	COMP	LD 1	5	5	0	0	1	1
CIT7 49CITS OUTPUT 49	COMP	LD 1	5	5	0	0	1	1
CIT7 50CITS OUTPUT 50	COMP	LD 1	5	5	0	0	1	1
CIT7 51CITS OUTPUT 51	COMP	LD 1	5	5	0	0	1	1
CIT7 52CITS OUTPUT 52	COMP	LD 1	5	5	0	0	1	1
CIT7 53CITS OUTPUT 53	COMP	LD 1	5	5	0	0	1	1
CIT7 54CITS OUTPUT 54	COMP	LD 1	5	5	0	0	1	1
CIT7 55CITS OUTPUT 55	COMP	LD 1	5	5	0	0	1	1
CIT7 56CITS OUTPUT 56	COMP	LD 1	5	5	0	0	1	1
CIT7 57CITS OUTPUT 57	COMP	LW	SERIAL DIGITAL					SERIAL DIGITAL 1
CIT7 58CITS OUTPUT 58	COMP	LW	SERIAL DIGITAL					SERIAL DIGITAL 1
CIT8 1CITS OUTPUT 1	COMP	LA10	5	10	0	0	DC	1
CIT8 2CITS OUTPUT 2	COMP	LA10	5	10	0	0	DC	1
CIT8 3CITS OUTPUT 3	COMP	LA10	5	10	0	0	DC	1
CIT8 4CITS OUTPUT 4	COMP	LD 1	5	5	0	0	1	1
CIT8 5CITS OUTPUT 5	COMP	LD 1	5	5	0	0	1	1
CIT8 6CITS OUTPUT 6	COMP	LD 1	5	5	0	0	1	1
CIT8 7CITS OUTPUT 7	COMP	LW	SERIAL DIGITAL					SERIAL DIGITAL 1
CIT9 1CITS OUTPUT 1	COMP	LA10	5	10	0	0	DC	1
CIT9 2CITS OUTPUT 2	COMP	LA10	5	10	0	0	DC	1
CIT9 3CITS OUTPUT 3	COMP	LA10	5	10	0	0	DC	1
CIT9 4CITS OUTPUT 4	COMP	LD 1	5	5	0	0	1	1
CIT9 5CITS OUTPUT 5	COMP	LD 1	5	5	0	0	1	1
CIT9 6CITS OUTPUT 6	COMP	LD 1	5	5	0	0	1	1
CM1B 1 46	CM1A	AA						
CM1B 2 47	CM1C	LD 1	5	6	0	0	1	6 0 600 P1
CM1B 3 48	CM1C	LD 1	5	6	0	0	1	6 0 600 P1
CM1B 4 49	CM1C	LD 1	5	6	0	0	1	6 0 600 P1
CM1B 5 50	CM1C	LD 1	5	6	0	0	1	6 0 600 P1
CM1B 6 51	CM1C	LD 1	5	6	0	0	1	6 0 600 P1
CM1B 7 52	CM1C	LD 1	5	6	0	0	1	6 0 600 P1
CM1B 8 53	CM1C	LD 1	5	6	0	0	1	6 0 600 P1
CM1B 9 115 VAC FUSED	CM1C	FR						
CM1B 10 71	CM1C	LD 1	5	6	0	0	1	6 0 600 P1
CM1B 11 72	CM1C	LD 1	5	6	0	0	1	6 0 600 P1



C116	2C11S	OUTPUT	2	COMP	LA10	5	10	0	0	DC	1
C116	3C11S	OUTPUT	3	COMP	LA10	5	10	0	0	DC	1
C116	4C11S	OUTPUT	4	COMP	LA10	5	10	0	0	DC	1
C116	5C11S	OUTPUT	5	COMP	LA10	5	10	0	0	DC	1
C116	6C11S	OUTPUT	6	COMP	LA10	5	10	0	0	DC	1
C116	7C11S	OUTPUT	7	COMP	LA10	5	10	0	0	DC	1
C116	8C11S	OUTPUT	8	COMP	LA10	5	10	0	0	DC	1
C116	9C11S	OUTPUT	9	COMP	LA10	5	10	0	0	DC	1
C116	10C11S	OUTPUT	10	COMP	LA10	5	10	0	0	DC	1
C116	11C11S	OUTPUT	11	COMP	LA10	5	10	0	0	DC	1
C116	12C11S	OUTPUT	12	COMP	LA10	5	10	0	0	DC	1
C116	13C11S	OUTPUT	13	COMP	LA10	5	10	0	0	DC	1
C116	14C11S	OUTPUT	14	COMP	LA10	5	10	0	0	DC	1
C116	15C11S	OUTPUT	15	COMP	LA10	5	10	0	0	DC	1
C116	16C11S	OUTPUT	16	COMP	LA10	5	10	0	0	DC	1
C116	17C11S	OUTPUT	17	COMP	LA10	5	10	0	0	DC	1
C116	18C11S	OUTPUT	18	COMP	LA10	5	10	0	0	DC	1
C116	19C11S	OUTPUT	19	COMP	LA10	5	10	0	0	DC	1
C116	20C11S	OUTPUT	20	COMP	LD 1	5	5	0	0	1	1
C116	21C11S	OUTPUT	21	COMP	LD 1	5	5	0	0	1	1
C116	22C11S	OUTPUT	22	COMP	LD 1	5	5	0	0	1	1
C116	23C11S	OUTPUT	23	COMP	LD 1	5	5	0	0	1	1
C116	24C11S	OUTPUT	24	COMP	LD 1	5	5	0	0	1	1
C116	25C11S	OUTPUT	25	COMP	LD 1	5	5	0	0	1	1
C116	26C11S	OUTPUT	26	COMP	LD 1	5	5	0	0	1	1
C116	27C11S	OUTPUT	27	COMP	LD 1	5	5	0	0	1	1
C116	28C11S	OUTPUT	28	COMP	LD 1	5	5	0	0	1	1
C116	29C11S	OUTPUT	29	COMP	LD 1	5	5	0	0	1	1
C116	30C11S	OUTPUT	30	COMP	LD 1	5	5	0	0	1	1
C116	31C11S	OUTPUT	31	COMP	LD 1	5	5	0	0	1	1
C116	32C11S	OUTPUT	32	COMP	LD 1	5	5	0	0	1	1
C116	33C11S	OUTPUT	33	COMP	LD 1	5	5	0	0	1	1
C116	34C11S	OUTPUT	34	COMP	LD 1	5	5	0	0	1	1
C116	35C11S	OUTPUT	35	COMP	LD 1	5	5	0	0	1	1
C116	36C11S	OUTPUT	36	COMP	LD 1	5	5	0	0	1	1
C116	37C11S	OUTPUT	37	COMP	LD 1	5	5	0	0	1	1
C116	38C11S	OUTPUT	38	COMP	LW	SERIAL DIGITALSERIAL DIGITAL					1
C116	39C11S	OUTPUT	39	COMP	LW	SERIAL DIGITALSERIAL DIGITAL					1
C117	1C11S	OUTPUT	1	COMP	LA10	5	10	0	0	DC	1
C117	2C11S	OUTPUT	2	COMP	LA10	5	10	0	0	DC	1
C117	3C11S	OUTPUT	3	COMP	LA10	5	10	0	0	DC	1
C117	4C11S	OUTPUT	4	COMP	LA10	5	10	0	0	DC	1
C117	5C11S	OUTPUT	5	COMP	LA10	5	10	0	0	DC	1
C117	6C11S	OUTPUT	6	COMP	LA10	5	10	0	0	DC	1
C117	7C11S	OUTPUT	7	COMP	LA10	5	10	0	0	DC	1
C117	8C11S	OUTPUT	8	COMP	LA10	5	10	0	0	DC	1
C117	9C11S	OUTPUT	9	COMP	LA10	5	10	0	0	DC	1
C117	10C11S	OUTPUT	10	COMP	LA10	5	10	0	0	DC	1
C117	11C11S	OUTPUT	11	COMP	LA10	5	10	0	0	DC	1
C117	12C11S	OUTPUT	12	COMP	LA10	5	10	0	0	DC	1
C117	13C11S	OUTPUT	13	COMP	LA10	5	10	0	0	DC	1
C117	14C11S	OUTPUT	14	COMP	LA10	5	10	0	0	DC	1
C117	15C11S	OUTPUT	15	COMP	LA10	5	10	0	0	DC	1
C117	16C11S	OUTPUT	16	COMP	LA10	5	10	0	0	DC	1
C117	17C11S	OUTPUT	17	COMP	LA10	5	10	0	0	DC	1
C117	18C11S	OUTPUT	18	COMP	LA10	5	10	0	0	DC	1
C117	19C11S	OUTPUT	19	COMP	LA10	5	10	0	0	DC	1
C117	20C11S	OUTPUT	20	COMP	LA10	5	10	0	0	DC	1
C117	21C11S	OUTPUT	21	COMP	LA10	5	10	0	0	DC	1
C117	22C11S	OUTPUT	22	COMP	LA10	5	10	0	0	DC	1

CM1B 12 73	CM1C	LD 1 5 6 0 0 1 6 0 600 P1
CM1B 13 74	CM1C	LD 1 5 6 0 0 1 6 0 600 P1
CM1B 14 75	CM1C	LD 1 5 6 0 0 1 6 0 600 P1
CM1B 15 76	CM1C	LD 1 5 6 0 0 1 6 0 600 P1
CM1B 16 9	CM1I	LD 1 5 6 0 0 1 6 0 600 P1
CM1B 17 10	CO1A	AA
CM1C 1 1	CM1F	LD 1 5 28 0 0 1 28 0 600 P1
CM1C 2 2	CM1F	LD 1 5 28 0 0 1 28 0 600 P1
CM1C 3 3	CM1F	LD 1 5 28 0 0 1 28 0 600 P1
CM1C 4 4	CM1F	HA
CM1C 5 7	CM1F	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 6 8	CM1G	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 7 10	CM1E	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 8 11	CM1H	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 9 12	CM1A	LD 1 5 0 0 0 1 100 10K 50 A1
CM1C 10 13	CM1A	LD 1 5 0 0 0 1 100 10K 50 A1
CM1C 11 26	CM1E	HA
CM1C 12 27	CM1E	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 13 28	CM1BCM10	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 14 29	CM1BCM10	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 15 30	CM1BCM10	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 16 31	CM1BCM10	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 17 32	CM1BCM10	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 18 33	CM1B	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 19 34	CM1B	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 20 35	CM1B	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 21 36	CM1B	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 22 37	CM1B	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 23 38	CM1BCM10	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 24 39	CM1B	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 25 40	CM1A	HA
CM1C 26 41	CM1A	HA
CM1C 27 42	CM1A	HA
CM1C 28 43	CM1A	HA
CM1C 29 44	CM1A	HA
CM1C 30 45	CM1H	AA
CM1C 31 52	CM1E	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 32 53	CM1E	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 33 54	CM1H	HA
CM1C 34 55	CM1H	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 35 56	CM1H	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 36 57	CM1H	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 37 58	CM1G	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 38 59	CM1G	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 39 60	CM1G	LD 1 5 6 0 0 1 6 0 600 P1
CM1C 40 61	CM1G	HA
CM1C 41 77	CM1A	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 42 78	CM1A	LD 1 5 0 0 0 1 100 10K 40 A1
CM1C 43-6 VDC POWER	CM1FCM1ICM1ECM1HPR	1
CM1C 43-6 VDC POWER	CM1G	PR
CM1C 446 VDC POWER	CM1FCM1ICM1ECM1HPR	1
CM1C 446 VDC POWER	CM1GCM1B	PR
CM1C 4535 VDC POWER	CM1ECM1FCM1GCM1HPR	1
CM1C 46115 VAC SWITCHED	CM1B	PR
CM1C 47SYSTEM GROUND	CM1B	PR
CM1D 1 3	CM1BCM1C	HA
CM1D 2 4	CM1ACM1B	LD 1 5 0 0 0 1 100 10K 40 A1
CM1D 3 5	CM1ACM1B	LD 1 5 0 0 0 1 100 10K 40 A1
CM1D 4 7	CM1CCM1I	LD 1 5 0 0 0 1 100 10K 40 A1
CM1D 5POWER GROUND	PR5A	PR



CM1E 1 14	CM1C	NA	1
CM1E 2 15	CM1C	NA	1
CM1E 3 16	CM1C	NA	1
CM1F 1 23	CM1C	NA	1
CM1F 2 24	CM1C	NA	1
CM1F 3 25	CM1C	NA	1
CM1G 1 20	CM1C	NA	1
CM1G 2 21	CM1C	NA	1
CM1G 3 22	CM1C	NA	1
CM1H 1 17	CM1C	NA	1
CM1H 2 18	CM1C	NA	1
CM1H 3 19	CM1C	NA	1
CM1I 1 6	CM1C	NA	1
CM1I 2 9	CM1C	NA	1
CM1I 3 1	CM1D	LD 1 5 8 0 0 1 8 0 2K P1	1
CM1I 4 2	CM1D	LD 1 5 8 0 0 1 8 0 2K P1	1
CM1J 1KF 1N	CM1E	NA	1
CM1K 1KF 1N	CM1F	NA	1
CM1L 1KF 1N	CM1G	NA	1
CM1M 1KF 1N	CM1H	NA	1
CM1N 1KF 1N	CM1D	NA	1
CM1O 1 68	CM1C	LD 1 5 0 0 0 1 100 10K 50 A1	1
CM1O 2 69	CM1C	LD 1 5 0 0 0 1 100 10K 50 A1	1
CM1O 3 70	CM1C	LD 1 5 0 0 0 1 100 10K 50 A1	1
CM1O 4 8	CM1B	LD 1 5 6 0 0 1 6 0 600 P1	1
CM2A1 DAZ BLANK CONTROL	CM2C	LD01 5 28 0 0 1 28 0 600 P1	1
CM2A1 PANIC THRESHOLD	CM2C	NA VIDEO	1
CM2A1 F228V MAIN POWER CONTROL	CM2C	LD01 5 28 0 0 1 28 0 600 P1	1
CM2A1 MSIGNAL GROUND	CM2F	PR	1
CM2A1 N228V (THERMISTATS)	CM2F	PR	1
CM2A1 KIEMP INTERLOCK	CM2E	LD01 5 28 0 0 1 28 0 600 P1	1
CM2A1 SELEV BLANKING COM1	CM2F	LD01 5 28 0 0 1 28 0 600 P1	1
CM2A1 VAK FRAME GROUND	PR5A	PR	1
CM2A1 W47C POWER GROUND	CM2C	PR	1
CM2A1 XDC SIGNAL GROUND	CM2C	PR	1
CM2A1 ZGO TEST PWR CONT	CM2C	LD01 10 28 0 0 1 28 0 600 P1	1
CM2A1SACRYU SENSOR PWR	CM2E	PR	1
CM2A1SBAUTO ELEV BLANK CONTROL	CM2C	LD01 5 28 0 0 1 28 0 600 P1	1
CM2A1SCGROUND COOLING INT	PR5A	LD01 5 28 0 0 1 28 0 150 P1	1
CM2B1 ZAIR VALVE CONTROL	CM2E	LD01 5 28 0 0 1 28 0 150 P1	1
CM2B1 3GROUND	PR5A	PR	1
CM2CA28SERVO LOGIC LONG	CM2F	LD01100 28 0 0 1 28 0 600 P1	1
CM2CA341EST LAMP VOLTAGE	CM2E	PR	1
CM2CA36115V 400HZ MOTOR PHAC	CM2E	PR	1
CM2CA38115V 400HZ MOTOR PHBC	CM2E	PR	1
CM2CA40115V 400HZ MOTOR PHCC	CM2E	PR	1
CM2CB 1115V 400HZ HIR A	CM2E	PR	1
CM2CB 3115V 400HZ HIR B	CM2E	PR	1
CM2CH 5115V 400HZ HIR C	CM2E	PR	1
CM2CH27UP CLUTCH COMMAND	CM2E	LD01 20 28 0 0 1 28 0 150 P1	1
CM2CH29AGC HOLD COMMAND	CM2E	LD01 10 28 0 0 1 28 0 600 P1	1
CM2CH37-18V REGULATOR PH A	CM2E	PR	1
CM2CH39-18V REGULATOR PH B	CM2E	PR	1
CM2CB41-18V REGULATOR PH C	CM2E	PR	1
CM2CC 4CK10 COOLING STATUS	CM2A	LD01 5 28 0 0 1 28 0 600 P1	1
CM2CC2600WN CLUTCH COMMAND	CM2E	LD01 20 28 0 0 1 28 0 150 P1	1
CM2CC304Z SINC PULSE	CM2F	LD01 20 5 0 0 1 5 0 500 P1	1
CM2CC32GO LAMP VOLTAGE	CM2A	PR	1
CM2CC400ELATED AGC GATE	CM2E	LD01 20 5 0 0 1 5 0 500 P1	1
CM2CD 1GROUND	PR5A	PR	1



CM2CD 3GROUND	PR5A	PR										1
CM2CD 5GROUND	PR5A	PR										1
CM2CD 7H1K RELAY CONT	CM2E	LD01	5	28	0	0	1	28	0	150	P1	
CM2CD 9CM OUTPUT	CM2F	LD01	5	5	0	0	1	5	0	500	P1	
CM2CD3300 TEST 3 CONTROL	CM2A	LD01	10	28	0	0	1	28	0	600	P1	
CM2CD41+28VDC IN OPR MODE	CM2E	PR										1
CM2CE 4IRACK 1ND OUTPUT	COMP	LD01	5	28	0	0	1					1
CM2CE 6CRYO COOLING IND	MS3A	LD01	1	28	0	0	1	28	0	700	P1	
CM2CE 8CM 1ND OUTPUT	CM3C	LD01	5	28	0	0	1	28	0	700	P1	
CM2CE244Z POSITION PULSE	COMP	LD06	40	SERIAL DIGITAL	SERIAL DIGITAL							1
CM2CE26EL POSITION PULSE	COMP	LD06	40	SERIAL DIGITAL	SERIAL DIGITAL							1
CM2CE2HVIDEO TRIGGER	COMP											7 USEC PULSE
CM2CE32GO TEST 2 CONT	CM2A	LD01	10	28	0	0	1	28	0	600	P1	
CM2CE34GO TEST 1 -GO SIGNAL	CM2A	LD01	10	28	0	0	1	28	0	600	P1	
CM2CE36CONT CK1 RETURN	CM2E											1
CM2CE40UNREG +27VDC	CM2F	PR										1
CM2D1 1+26V SOLENOID	CM2F	PR										1
CM2D2 5AIR FRAME GRD	PR5A	PR										1
CM2E116ELEV DATA VOLTAGE	CM2C											1
CM2E124BRAKE DRIVE MONITOR	CM2C	LD01	20	5	0	0	1	5	0	500	P1	
CM2E125PANIC THRESHOLD	CM2A	LD01	20	5	0	0	1	5	0	500	P1	
CM2E131AIR FRAME GRD	PR5A	PR										1
CM2E134NOD OR HIGH LIMIT	CM2C	LD01	100	28	0	0	1	28	0	600	P1	
CM2E136NOD OR LOW LIMIT	CM2C	LD01	100	28	0	0	1	28	0	600	P1	
CM2E139CRYO COOLING STATUS	CM2A	LD01	1	28	0	0	1	28	0	700	P1	
CM2E143ELEV BLANKING SOURCE	CM2A	LD01	20	5	0	0	1	5	0	500	P1	
CM2E147MIXER VIDEO	CM2C											1
CM2E156+28V RETURN	CM2D											1
CM3A 1OVERLOAD 1+2	CM3B	LD	1	5	0	0	0	1	100	10K	40	A1
CM3A 2JAM INDICATOR 1+2	CM3B	LD	1	5	0	0	0	1	100	10K	40	A1
CM3A 328 VDC DELAYED 1	CM3B	LD	1	5	28	0	0	1	28	0	150	P1
CM3A 4RF DETECTOR 1	CM3F	LD	1	5	0	0	0	1	100	10K	40	A1
CM3A 5RF DETECTOR 2	CM3B	LD	1	5	0	0	0	1	100	10K	40	A1
CM3A 628 VDC DELAYED 2	CM3B	LD	1	5	28	0	0	1	28	0	150	P1
CM3B 1STANDBY CONTROL 1	CM3A	LD	1	5	0	0	0	1	100	10K	50	A1
CM3B 2TRANSMIT CONTROL 1	CM3ACM1B	LD	1	5	28	0	0	1	28	0	150	P1
CM3B 3TRANSMIT CONTROL 2	CM3ACM1B	LD	1	5	28	0	0	1	28	0	150	P1
CM3B 4STANDBY CONTROL 2	CM3A	LD	1	5	0	0	0	1	100	10K	50	A1
CU1A 1CARBON MIKE	CU4A	AA0418K										1
CU1A 2MIKE AUDIO IN	CU4A	AA0418K										1
CU1A 3SHIELD GND	CU4A											1
CU1A 4MIKE GND	CU4A											1
CU1A 5HEADSET GND	CU4A											1
CU1A 6AUX AUDIO IN	CU4A	AA0418K										1
CU1A 7GUARD AUDIO IN	CU4A	AA0418K										1
CU1A 8KEY INTERLOCK	CU3A	LD01	20	28	0	0	1	28	0	700	P1	
CU1A 10SECUFF AUDIO (XMI1)	CU4A	MD										ENCIPHERED PCM
CU1A 9AMIT CONTROL	CU3A	LD01	20	28	0	0	1	28	0	700	P1	
CU1A 11AMIT AUDIO	CU4A	AA0418K										1
CU1A 12AMIT AUDIO RET	CU4A											1
CU1A 13AMIT CONTROL	CU4A	LD01	20	28	0	0	1	28	0	700	P1	
CU1A 14MIKE KEY	CU2A	LD01	20	28	0	0	1	28	0	700	P1	
CU1A 15REMOTE I/P CONT	CU6B	LD01	20	28	0	0	1	28	0	700	P1	
CU1A 16AUDIO	CU1F	AA0418K										1
CU1A 17CONTROL RET	CU1F											1
CU1A 18SHIELD GND	CU1F											1
CU1B 1CONTROL	CU1A	LD32	25	SERIAL DIGITAL	SERIAL DIGITAL							1
CU1B 2AUDIO RET	CU1B											1
CU1B 3SHIELD GND	CU1A											1
CU1B 4CONTROL	CU1C	LD32	25	SERIAL DIGITAL	SERIAL DIGITAL							1

CO1B 5AUDIO	CO1D	AA0418K	1
CO1B 6MIKE AUDIO	CO1D	AA0418K	1
CO1B 7SHIELD GND	CO1C		1
CO1C 1CONTROL RET	CO1B		1
CO1D 1AUDIO RET	CO1B		1
CO1D 2MIKE AUDIO RET	CO1B		1
CO1D 3SHIELD GND	CO1B		1
CO2A1 X32VOLT PWR	CO2B	PR	1
CO2A2 6AUDIO SHIELD GND	PR5A	PR	1
CO2A2 6MIKE COMMON	CO1A		1
CO2A2 6GUARD AUDIO OUT	CO1A	AA0418K	1
CO2A2 6LAUX AUDIO OUT	CO1A	AA0418K WIDE BAND	1
CO2A2 615V OHM AUDIO	CO2B	AA0418K	1
CO2A2 6AUDIO COMMON	CO1A	WIDE BAND	1
CO2A2 6GROUND	PR5A	PR	1
CO2A2 6CHASSIS GND	CO2BPR5A	PR	1
CO2A3 RF IN/OUT	CO2B	HA COAX	1
CO2B4 6PWR ON-OFF	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6FREQ CONT 10-2	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6ADF ON-OFF	NV3A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6GUARD ON-OFF	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6AUDIO OUTPUT	CO1A	AA0418K	1
CO2B4 6AUDIO COMMON	CO2A		1
CO2B4 6SQUELCH DISABLE	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6FREQ CONT 100-1	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6CHASSIS GND	CO2APR5A	PR	1
CO2B4 6FREQ CONT 0.01-4	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6CONTROL COMMON	CO2A		1
CO2B4 6FREQ CONT 10-1	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6FREQ CONT 10-4	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6FREQ CONT 10-8	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6AFREQ CONT 1-1	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6BFREQ CONT 1-2	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6SCFREQ CONT 1-4	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6DFREQ CONT 1-8	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6FFREQ CONT 0.1-1	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6GFREQ CONT 0.1-2	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6HFREQ CONT 0.1-4	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2B4 6JFREQ CONT 0.1-8	CO2A	LD01 5 0 0 0 1 100 10K 40 A1	1
CO2C1 RF IN/OUT	CO2A	HA COAX	1
CO3A1 6POWER RETURN	PR5A	PR	1
CO3A1 6CHASSIS GND	PR5A	PR	1
CO3A1 6SIGNAL GND	PR5A	PR	1
CO3A1 6DREC AUDIO	CO1A	AA0418K	1
CO3A1 6REC AUDIO RET	CO1A		1
CO3A2 RF	CO3B	HA COAX	1
CO3B1 RF (ANT)	CO3B	HA COAX	1
CO3B2 RF (AM)	CO3A	HA COAX	1
CO3B3 RF (FM)	CO3A	HA COAX	1
CO3C1 RF (ANT)	CO3B	HA COAX	1
CO4A1 6HEADSET AUDIO OUT	CO1A	AA0418K	1
CO4A2 6CARBON MIKE OUT	CO1A	AA0418K	1
CO4A2 6SHIELDS	PR5A	PR	1
CO4A2 6PRIMARY GND	PR5A	PR	1
CO4A2 6SYSTEM GND	CO4B	PR	1
CO4A2 6SYSTEM GND	CO4B	PR	1
CO4A2 6WIDE BAND AUDIO	NV3A	MA	1
CO4B1 B+28VDC	CO4A	PR	1
CO4B1 6EXT TIME DELAY	CO4A	LD01 5 0 0 0 1 100 10K 1 A1	1
CO4B1 6SYSTEM GND	CO4A	PR	1



[illegible]



148







[illegible]

CUMP	CITS INPUT 8	C112	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 9	C112	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 10	C113	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 11	C113	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 12	C113	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 13	C113	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 14	C113	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 15	C113	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 16	C113	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 17	C113	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 18	C113	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 19	C113	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 20	C114	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 21	C114	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 22	C114	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 23	C114	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 24	C114	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 25	C114	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 26	C115	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 27	C115	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 28	C115	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 29	C115	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 30	C115	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 31	C116	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 32	C116	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 33	C116	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 34	C116	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 35	C116	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 36	C117	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 37	C117	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 38	C117	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 39	C117	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 40	C117	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 41	C117	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 42	C117	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 43	C118	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 44	C119	LD 1 5	5	0	500	P1
CUMP	CITS INPUT 45	C111	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 46	C111	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 47	C112	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 48	C112	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 49	C113	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 50	C113	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 51	C113	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 52	C113	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 53	C114	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 54	C114	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 55	C115	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 56	C115	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 57	C116	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 58	C116	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 59	C117	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 60	C117	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	CITS INPUT 61	C117	LW	SERIAL DIGITALSERIAL DIGITAL 1			
CUMP	1RELEASE	ID10	LD01100	28	0	0	1 28 0 600 P1
CUMP	2BOMB FALL LINE	ID5A	LA06 20	5100	0	DC	5 SK 0 DC1
CUMP	3BOMB RELEASE	ID5A	LD01 20	28	0	0	1 28 0 600 P1
CUMP	4RELEASE	NV16	LD01100	28	0	0	1 28 0 600 P1
CUMP	5RAIP	ID3G	H001	DELAY CRITICAL			
CUMP	6LASER RANGE	ID3G	LW16 10	SERIAL DIGITALSERIAL DIGITAL 1			



CUMP 7RNG RCVR BITE OUT	1D3G	LD01 10 5 0 0 1 5 0 500 P1
CUMP 8RNG CUMP BITE OUT	1D3G	LD01 10 5 0 0 1 5 0 500 P1
CUMP 9LED TRIGGER	1D3E	H DELAY CRITICAL 1
CUMP 10GND	PR5A	PR 1
CUMP 11GND	PR5A	PR 1
CUMP 12GND	PR5A	PR 1
CUMP 13SIGNAL GND	PR5A	PR 1
CUMP 14VERT BEAM SENSE	PR5A	PR 1
CUMP 15+15V SYMBOL BIAS	1D5A	PR 1
CUMP 16THERMAL OVERLOAD	1D5A	LD01 1 5 0 0 1 5 0 500 P1
CUMP 17-15VDC SYMBOL BIAS	1D5A	PR 1
CUMP 18HORIZ+FLT PATH ANG	1D5A	LD06 20 15100 0 DC 15 5K 0 DC1
CUMP 19A DEFLECTION	1D5A	HA CRITICAL 1
CUMP 2070VAC PHASE C	1D5A	PR 1
CUMP 2170VAC N	1D5A	PR 1
CUMP 22BUSY SIGNAL REF	1D5A	HD CRITICAL 1
CUMP 23GND	PR5A	PR 1
CUMP 24GND	PR5A	PR 1
CUMP 2540VAC PHASE A	1D5A	PR 1
CUMP 2640VAC PHASE B	1D5A	PR 1
CUMP 27GND	PR5A	PR 1
CUMP 29DEFLECTION MON REF	1D5A	1
CUMP 30ELEC UNIT FAIL	1D5A	LD01 1 5 0 0 1 5 0 500 P1
CUMP 31RIGHT-UP	1D5A	HA CRITICAL 1
CUMP 32Y-DEFLECTION	1D5A	HA CRITICAL 1
CUMP 33SERIAL CHANNEL CLOCKID7C	1D7C	HW 1
CUMP 34FLR SW CURSOR AZ	1D7C	LA16 25SERIAL DIGITALSERIAL DIGITAL 1
CUMP 35FLR COS CURSOR AZ	1D7C	LA16 25SERIAL DIGITALSERIAL DIGITAL 1
CUMP 36FLR RANGE CURSOR	1D7C	LA16 25SERIAL DIGITALSERIAL DIGITAL 1
CUMP 37FLR ADDRESS OUT	1D7C	HW 1
CUMP 38FLR DATA READY OUT	1D7C	HW 1
CUMP 39ANTENNA POINTING AZ	1D7A	LS13 2511.8600 11.8 20 1
CUMP 40ANTENNA POINTING EL	1D7A	LS13 2511.8600 11.8 20 1
CUMP 41GROUND TRACK VEL	1D7C	LA12 25 18100 0 DC 18 4K 0 DC1
CUMP 42FLIGHT PATH ANGLE	1D7C	LA12 25 18100 0 DC 18 4K 0 DC1
CUMP 43COMPUTER FAIL	1D7C	LD 1 25 28 0 0 1 28 0 600 P1
CUMP 44CURSOR ENABLE	1D7B	LD 1 25 28 0 0 1 28 0 600 P1
CUMP 45ANTENNA SLAVE	1D7B	LD 1 25 28 0 0 1 28 0 600 P1
CUMP 46COMMAND TEST	1D7C	LD 1 5 28 0 0 1 28 0 600 P1
CUMP 47SYSTEM DISCONNECT	1D7C	LD 1 5 28 0 0 1 28 0 600 P1
CUMP 48GROUND	PR5A	PR 1
CUMP 50VEL AID GND	PR5A	PR 1
CUMP 51ALARM SIG GND	PR5A	PR 1
CUMP 52TD GND	PR5A	PR 1
CUMP 53VEL AID NEG(2**0)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 54VEL AID NEG(2**1)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 55VEL AID NEG(2**2)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 56VEL AID NEG(2**3)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 57VEL AID NEG(2**4)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 58VEL AID NEG(2**5)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 59VEL AID NEG(2**6)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 60VEL AID NEG(2**7)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 61VEL AID NEG(2**8)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 62VEL AID NEG(2**9)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 63VEL AID NEG(2**10)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 64NEG(SIGN)	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 65VEL IDENT 2**0	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 66VEL IDENT 2**1	NV1B	LD01 5 5 0 0 1 5 0 500 P1
CUMP 67GROUND	PR5A	PR 1
CUMP 68115V PWR N	PR5A	PR 1



COMP 69115VAC SWITCHED	NV1J	PR								1
COMP 70GND	PR5A	PR								1
COMP 715V LAMP RET	PR5A	PR								1
COMP 7226VAC SYNCHRO C (N)	PR5A	PR								1
COMP 74RELEASE	NV1G	LD01100	5	0	0	1	5	0	500	P1
COMP 75RELEASE	NV1G	LD01100	5	0	0	1	5	0	500	P1
COMP 76REL BRG	NV1G	LA10	10	5100-2.5	DC		5	5K-2.5	DC1	
COMP 77GROUND	NV1G	PR								1
COMP 78+28VDC COMP ON	NV1G	LD01	5	28	0	0	1	28	0	700 P1
COMP 79ADI HORIZ POINTER	NV1G	LA12	5	5100-2.5	DC		5	500-2.5	DC1	
COMP 80GND	NV1G	PR								1
COMP 81LOGIC GND	NV1G	PR								1
COMP 82ADI VERT POINTER	NV1G	LA12	5	5100-2.5	DC		5	500-2.5	DC1	
COMP 83DEP ANGLE	NV1G	LA12	5	5100-2.5	DC		5	500-2.5	DC1	
COMP 84GND	NV1G	PR								1
COMP 85GND	PR5A	PR								1
COMP 8626V SYNC PWR C	PR5A	PR								1
COMP 87RANGE 100 X	NV7A	LS07	2011.8	50			11.8	200		1
COMP 88RANGE 100 X	NV7A									1
COMP 89RANGE 10 X	NV7A	LS07	2011.8	50			11.8	200		1
COMP 90RANGE 10 X	NV7A									1
COMP 91GND	PR5A	PR								1
COMP 92GND	PR5A	PR								1
COMP 93RANGE UNITS X	NV7A	LS07	2011.8	50			11.8	200		1
COMP 94RANGE UNITS Y	NV7A									1
COMP 9510-FROM FLAG (-)	NV7A	LD01	10	.06200-.06200	.06-.06	200				P1
COMP 96BEARING X	NV7A	LS13	2011.8	75			11.8	150		1
COMP 97BEARING Y	NV7A									1
COMP 98BEARING Z	NV7A									1
COMP 99DME WARN FLAG	NV7A	LD01	5	28	7K	0	1	28	0	10K P1
COMP100RANGE 1000	NV7A	LD01	5	28	1K	0	1	28	0	6K P1
COMP101COURSE WARN FLAG	NV7A	LD01	5	28	7K	0	1	28	0	10K P1
COMP102DC RETURN	PR5A	PR								1
COMP103GND	PR5A	PR								1
COMP10426VAC SYNCHRO C	PR5A	PR								1
COMP105LOGIC GND	PR5A	PR								1
COMP1065VDC CONT PWR	NV1C	PR								1
COMP107X/D SW GP SEL	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP108NEG 2 (1,5,9,13)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP109NEG 2 (2,6,10,14)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP110NEG 4 (1,5,9,13)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP111NEG 8 (1,5,9,13)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP112NEG 1 (2,6,10,14)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP113NEG 2 (2,6,10,14)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP114NEG 8 (2,6,10,14)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP115NEG 1 (3,7,11,15)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP116NEG 2 (3,7,11,15)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP117NEG 4 (3,7,11,15)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP118NEG 8 (3,7,11,15)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP119NEG 1 (4,8,12,16)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP120NEG 2 (4,8,12,16)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP121NEG 4 (4,8,12,16)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP122NEG 8 (4,8,12,16)	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP123UPPER DISP 1ST HALF	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP124UPPER DISP 2ND HALF	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP125LOWER DISP 1ST HALF	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP126LOWER DISP 2ND HALF	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP127PRE-UPDATE RESET	NV1C	LD01	5	5	0	0	1	5	0	500 P1
COMP128PWR COMMON	NV1C	PR								1
COMP129+5VDC RET (CONT)	NV1C	PR								1

[illegible]

COMP190RELAY CONT (PWR)	NV1B	LD01	5	5	0	0	1	5	0	500	P1
COMP191GND	NV1B	PR									1
COMP192OSC HEATER 2MV	NV1B	LD01	5	5	0	0	1	5	0	500	P1
COMP193SDB 1K NEG B	NV1B	LD01	5	5	0	0	1	5	0	500	P1
COMP194START SEARCH M	NV1B	LD01	5	5	0	0	1	5	0	500	P1
COMP195START SEARCH A	NV1B	LD01	5	5	0	0	1	5	0	500	P1
COMP196START SEARCH B	NV1B	LD01	5	5	0	0	1	5	0	500	P1
COMP197NEG DORAN C	NV1B	LD01	5	5	0	0	1	5	0	500	P1
COMP198+ WORD	NV1F	RD									1
COMP199- WORD	NV1F	RD									1
COMP200+ CLOCK	NV1F	RD									1
COMP201- CLOCK	NV1F	RD									1
COMP202+5VDC	NV1F	PR									1
COMP203GND	NV1F	PR									1
COMP205ALTITUDE PICK OFF	1D7A	LA10	5	20	100-2.5	DC	26	5K-2.5	DC1		1
COMP20720VAC REL	PR5A	PR									1
COMP208MACH LIMIT WARNING	MS3A	LD01	1	28	0	0	1	28	0	700	P1
COMP209MACH LIMIT REL	MS3A										1
COMP213ALTITUDE SYNC A	MS6A	LS13	10	11.8	75			11.8	150		1
COMP214ALTITUDE SYNC I	MS6A										1
COMP215ALTITUDE SYNC Z	MS6A										1
COMP216GND	PR5A	PR									1
COMP217IAS SYNC A	MS6A	LS13	10	11.8	75			11.8	150		1
COMP218IAS SYNC Y	MS6A										1
COMP219IAS SYNC Z	MS6A										1
COMP220GND	PR5A	PR									1
COMP221GND	PR5A	PR									1
COMP225MACH SYNC A	MS6A	LS13	10	11.8	75			11.8	150		1
COMP226MACH SYNC I	MS6A										1
COMP227MACH SYNC Z	MS6A										1
COMP228ALT WARNING (MON)	MS6AMS3A	LD01	1	28	0	0	1	28	0	700	P1
COMP229MACH WARNING (MON)	MS6AMS3A	LD01	1	28	0	0	1	28	0	700	P1
COMP230IAS WARNING (MON)	MS6AMS3A	LD01	1	28	0	0	1	28	0	700	P1
COMP231IAS WARNING (MON)	MS6AMS3A	LD01	1	28	0	0	1	28	0	700	P1
COMP232AOC FAIL WARN NC	MS3A	LD01	1	28	0	0	1	28	0	700	P1
COMP233AOC FAIL WARN C	MS3A	LD01	1	28	0	0	1	28	0	700	P1
COMP234AOC FAIL WARN NO	MS3A	LD01	1	28	0	0	1	28	0	700	P1
COMP235IAS LIMIT WARN NO	MS3A	LD01	1	28	0	0	1	28	0	700	P1
COMP236IAS LIMIT WARN C	MS3A	LD01	1	28	0	0	1	28	0	700	P1
COMP237IAS LIMIT WARN NC	MS3A	LD01	1	28	0	0	1	28	0	700	P1
COMP238GND	PR5A										1
COMP242GND	PR5A	PR									1
COMP243CHASSIS GND	PR5A	PR									1
COMP24420VAC W	PR5A	PR									1
COMP245CHARGER OUTPUT	NV2A	PR									1
COMP246115VAC PWR REL	PR5A	PR									1
COMP247115VAC PWR REL	PR5A	PR									1
COMP248BATTERY WARNING	NV2C	LD01	1	5	0	0	1	5	0	500	P1
COMP249VDDU FANBLEP	NV2B	LD01	5	5	0	0	1	5	0	500	P1
COMP250+36 OR +27.5VDC	NV2C	PR									1
COMP251READY NAV DATA	NV2C	LD01	5	5	0	0	1	5	0	500	P1
COMP252BATTERY OK DATA	NV2B	LD01	1	5	0	0	1	5	0	500	P1
COMP253WARNING DATA	NV2B	LD01	1	5	0	0	1	5	0	500	P1
COMP254AUX PITCH+ROLL WARN	MS3ANV7A	LD01	1	28	0	0	1	28	0	700	P1
COMP255BATT+WARN DATA GND	NV2F										1
COMP256+15VDC	NV2B	PR									1
COMP257+15VDC	NV2B	PR									1
COMP258+15VDC	NV2B	PR									1
COMP259-15VDC	NV2B	PR									1
COMP260-15VDC	NV2B	PR									1



COMP261-15VDC	NV2B	PR								1
COMP262PITCH NO.2 (X)	NV7A1D7A	LS13	1011.8	50		11.8	200			1
COMP263PITCH NO.2 (Y)	NV7A1D7A									1
COMP264PITCH NO.2 (Z)	NV7A1D7A									1
COMP265ROLL NO.2 (X)	NV7A1D7A	LS13	1011.8	50		11.8	200			1
COMP266ROLL NO.2 (Y)	NV7A1D7A									1
COMP267ROLL NO.2 (Z)	NV7A1D7A									1
COMP268DATA (HI)	NV2B	MD	40	AT 100KHZ						1
COMP269DATA (LO)	NV2B									1
COMP270SYNC (HI)	NV2B	MD	1	AT 100KHZ						1
COMP271SYNC (LO)	NV2B									1
COMP272CLOCK (HI)	NV2B	MD	3.072	MHZ						1
COMP273CLOCK (LO)	NV2B									1
COMP274+RT ATK DEVIATION	NV7A	LA06	5	5100-2.5	DC	5	5K-2.5	DC	1	1
COMP275+LT ATK DEVIATION	NV7A									1
COMP276TD STANDARD	NV7A	LD01	10	2810K	0	1	28	0	15K	P1
COMP277FRUM STANDARD	NV7A	LD01	10	2810K	0	1	28	0	15K	P1
COMP278STEERING (HI)	NV7A	LA07	10	5100-2.5	DC	5	5K-2.5	DC	1	1
COMP279STEERING (LO)	NV7A									1
COMP280TRUE HEADING (X)	NV7A	LS13	2011.8	50		11.8	200			1
COMP281TRUE HEADING (Y)	NV7A									1
COMP282TRUE HEADING (Z)	NV7A									1
COMP283TRUE HEADING WARN	NV7A	LD01	1	28	5K	0	1	28	0	6K P1
COMP284NAV WARNING	NV7A	LD01	1	28	5K	0	1	28	0	6K P1
COMP285VERT ACCEL (LO)	MS6A	LA06	5	7100	-2	AC	7	5K	-2	AC1
COMP286VERT ACCEL (HI)	MS6A									1
COMP287MODE C D2	CO6A	LD01	5	0	0	0	1	100	10K	3 A1
COMP288MODE C D4	CO6A	LD01	5	0	0	0	1	100	10K	3 A1
COMP289MODE C A1	CO6A	LD01	5	0	0	0	1	100	10K	3 A1
COMP290MODE C A2	CO6A	LD01	5	0	0	0	1	100	10K	3 A1
COMP291MODE C A4	CO6A	LD01	5	0	0	0	1	100	10K	3 A1
COMP292MODE C B1	CO6A	LD01	5	0	0	0	1	100	10K	3 A1
COMP293MODE C B2	CO6A	LD01	5	0	0	0	1	100	10K	3 A1
COMP294MODE C B4	CO6A	LD01	5	0	0	0	1	100	10K	3 A1
COMP295MODE C C1	CO6A	LD01	5	0	0	0	1	100	10K	3 A1
COMP296MODE C C2	CO6A	LD01	5	0	0	0	1	100	10K	3 A1
COMP297MODE C C4	CO6A	LD01	5	0	0	0	1	100	10K	3 A1
COMP298DIGITIZER COMMON	PR5A	PR								1
COMP299SELF-TEST	CO6C	LD01	5	0	0	0	1	100	10K	40 A1
COMP300SELF-TEST RETURN	CO6C									1
COMP301ALT SYNCHRO C	CO6E	PR								1
COMP302ALT SYNCHRO H	CO6E									1
COMP303ALT SYNCHRO X	CO6E	LS10	1011.8	50		11.8	200			1
COMP304ALT SYNCHRO Z	CO6E									1
COMP305ALT SYNCHRO Y	CO6E									1
COMP306ALT SERVO PWR	CO6E	PR								1
COMP307115VAC PWR N	PR5A	PR								1
COMP308GND	PR5A	PR								1
COMP CENTRAL COMPUTER IN	CC1B	LN16485								1
MS1A 1SUPPRESSION IN/OUT	NV6A	HD		COAX	0	0	1	100	10K	2 A1
MS1A 2SUPPRESSION IN	ID6A	HD		COAX	0	0	1	100	10K	2 A1
MS1A 3SUPPRESSION IN	CO6A	HD		COAX	0	0	1	100	10K	2 A1
MS1A 4SUPPRESSION	CM3A	HD		COAX	0	0	1	100	10K	2 A1
MS1A 5SUPPRESSION	CM1D	HD		COAX	0	0	1	100	10K	2 A1
MS2A 1SENSITIVITY CONT	CO6A	LD01	10	0	0	0	1	100	10K	2 A1
MS2A 2MODE 2 ENABLE	CO6A	LD01	10	0	0	0	1	100	10K	2 A1
MS2A 3STANDBY CONTROL	CO6A	LD01	10	0	0	0	1	100	10K	2 A1
MS2A 4MODE 37A ENABLE	CO6A	LD01	10	0	0	0	1	100	10K	2 A1
MS2A 5EMERGENCY CONT	CO6A	LD01	10	0	0	0	1	100	10K	2 A1
MS2A 6MODE 1 ENABLE	CO6A	LD01	10	0	0	0	1	100	10K	2 A1

MS2A 7MODE 4 ZEROIZE	CU6F	LD01 10	0	0	0	1	100	10K	2	A1
MS4A1 1A/C 5V LAMP VOLTAGE	CM2A	PR								1
MS4A1 2A/C 5V LAMP VOLTAGE	CM2A									1
MS4A1 3INTEGRAL LIGHTING	NV4H	PR								1
MS4A1 4PANEL LIGHT	NV1F									1
MS4A1 9PANEL LIGHTS	CU6H									1
MS4A1 50-5VAC (H1)	NV2E									1
MS4A1 60-5VAC (L0)	NV2E									1
MS4A1 70-5VAC (H1)	NV2C									1
MS4A1 80-5VAC (L0)	NV2C									1
MS4A110WHITE LIGHT 5V	CU6E									1
MS4A1115V PANEL LIGHTS	TD6E									1
MS4A112PANEL LIGHTS	CU5A									1
MS4A113PANEL LIGHT VOLTAGE	CU4E									1
MS4A114PANEL LIGHTS	CU3A									1
MS4A1155V PANEL LIGHTS	CU2E									1
MS4A116PANEL LIGHTS	NV6H									1
MS4A1175V LAMP FWR	NV6E									1
MS4A11801ST LAMP DIMMER	NV6E									1
MS4A119PANEL LAMPS	NV5C									1
MS4A120PANEL LIGHTS	CM3E									1
MS4A1215V PANEL LIGHTS	TD3G									1
MS4A122PANEL LIGHTS	CM1B									1
MS4A123PANEL LIGHTS	NV1H									1
MS4A124DIMMER CUNT	NV4D									1
MS4A125EDGE LIGHT POWER	TD2C									1
MS4A126PANEL LIGHTS	TD1F									1
MS4A127PANEL LIGHTS	TD4B									1
MS4A128PANEL LIGHTS	TD3D									1
MS4A129PANEL LIGHTS	CU1E									1
MS4A130PANEL LIGHTS	CU1C									1
MS4A132PANEL LIGHTS	NV7A									1
MS4A133+5VAC LIGHTING	TD5A									1
MS4A134PANEL LIGHTING	TD7B	PR								1
MS5A1 1LANDING GEAR INTERLOCK	CU6F	LD01 1	28	0	0	1	28	0	700	P1
MS7A 1TARGET REJECT	TD7C	LD 1 10	28	0	0	1	28	0	600	P1
NV1A1 1PICKUP IN	NV1G	LD01100	28	0	0	1	28	0	600	P1
NV1B2E-5.2VDC	COMP	PR								1
NV1B2DMS1G GND LOGIC HIGH	COMP	PR								1
NV1B3 CSMD GND	PR5A	PR								1
NV1B4 D115V PWR H	PR5A	PR								1
NV1B4 E115V PHASE A	NV1E	PR								1
NV1B4 F115V PHASE B	NV1E	PR								1
NV1B4 G115V PHASE C	NV1E	PR								1
NV1B4 H28V FAN HY	NV1E	LD01 1	28	0	0	1	28	0	150	P1
NV1B5 A+22.5V PAF	NV1D	PR								1
NV1B5 CGND AND SHLD	NV1D	PR								1
NV1B5 D-5.2V	NV1D	PR								1
NV1B5 ENEG (PREAMP AGC GND)	NV1E	LD01 20	5	0	0	1	5	0	500	P1
NV1B6 A1D 10K-1	COMP	LD01 20	5	0	0	1				1
NV1B6 B1D 10K-2	COMP	LD01 20	5	0	0	1				1
NV1B6 C1D 10K-4	COMP	LD01 20	5	0	0	1				1
NV1B6 D1D 10K-8	COMP	LD01 20	5	0	0	1				1
NV1B6 E1D 1K-1	COMP	LD01 20	5	0	0	1				1
NV1B6 F1D 1K-2	COMP	LD01 20	5	0	0	1				1
NV1B6 G1D 1K-4	COMP	LD01 20	5	0	0	1				1
NV1B6 H1D 1K-8	COMP	LD01 20	5	0	0	1				1
NV1B6 J1D 100-1	COMP	LD01 20	5	0	0	1				1
NV1B6 K1D 100-2	COMP	LD01 20	5	0	0	1				1
NV1B6 L1D 100-4	COMP	LD01 20	5	0	0	1				1

NV186 MID 100-8	COMP	LD01 20	5	0	0	1	1
NV186 MID 10-1	COMP	LD01 20	5	0	0	1	1
NV186 MID 10-2	COMP	LD01 20	5	0	0	1	1
NV186 MID 10-4	COMP	LD01 20	5	0	0	1	1
NV186 SID 10-8	COMP	LD01 20	5	0	0	1	1
NV186 IID 1-1	COMP	LD01 20	5	0	0	1	1
NV186 UID 1-2	COMP	LD01 20	5	0	0	1	1
NV186 VID 1-4	COMP	LD01 20	5	0	0	1	1
NV186 WID 1-8	COMP	LD01 20	5	0	0	1	1
NV186 XID 0.1-1	COMP	LD01 20	5	0	0	1	1
NV186 IID 0.1-2	COMP	LD01 20	5	0	0	1	1
NV186 ZID 0.1-4	COMP	LD01 20	5	0	0	1	1
NV186AAA GATE	COMP	AD					1
NV186BBB GATE	COMP	AD					1
NV186DDVEL AID GND	PRSA	PR					1
NV186EENEG FFEZE	COMP	MD0140K500US PULSE					1
NV186FFALARM SIGNAL GND	PRSA	PR					1
NV186GGID GND	PRSA	PR					1
NV186HHID 2**0(.025)	COMP	LD01 20	5	0	0	1	1
NV186JJTD 2**1(.025)	COMP	LD01 20	5	0	0	1	1
NV186KANE (XMTX HALF)	COMP	LD01 20	5	0	0	1	1
NV186SAID 0.1-8	COMP	LD01 20	5	0	0	1	1
NV186SUNEG (JAMMER REC)	COMP	LD01 5	5	0	0	1	1
NV186SWADV VEL REG	COMP	LD01 5	5	0	0	1	1
NV186SPSUPPLY INIT M VEL	COMP	LD01 5	5	0	0	1	1
NV186SVNEG (RCVR SRCH)PS	COMP	LD01 5	5	0	0	1	1
NVIC1 1BASIC REP RATE 1	COMP	LD01 5	5	0	0	1	1
NVIC1 2BASIC REP RATE 2	COMP	LD01 5	5	0	0	1	1
NVIC1 3BASIC REP RATE 3	COMP	LD01 5	5	0	0	1	1
NVIC1 4BASIC REP RATE 6	COMP	LD01 5	5	0	0	1	1
NVIC1 5BASIC REP RATE 1	COMP	LD01 5	5	0	0	1	1
NVIC1 6BASIC REP RATE 2	COMP	LD01 5	5	0	0	1	1
NVIC1 7BASIC REP RATE 4	COMP	LD01 5	5	0	0	1	1
NVIC1 8BASIC REP RATE 8	COMP	LD01 5	5	0	0	1	1
NVIC1 9BASIC REP RATE NEG	CCOMP	LD01 5	5	0	0	1	1
NVIC110SPEC REP RATE 1	COMP	LD01 5	5	0	0	1	1
NVIC111SPEC REP RATE 2	COMP	LD01 5	5	0	0	1	1
NVIC112SPEC REP RATE 3	COMP	LD01 5	5	0	0	1	1
NVIC113SPEC REP RATE 6	COMP	LD01 5	5	0	0	1	1
NVIC114SPEC REP RATE 1	COMP	LD01 5	5	0	0	1	1
NVIC115SPEC REP RATE 2	COMP	LD01 5	5	0	0	1	1
NVIC116SPEC REP RATE 4	COMP	LD01 5	5	0	0	1	1
NVIC117SPEC REP RATE 8	COMP	LD01 5	5	0	0	1	1
NVIC137NEG (IGT FIND)	COMP	LD01 20	5	0	0	1	1
NVIC138NEG (NAKA)	COMP	LD01 20	5	0	0	1	1
NVIC139COURSE SEL	COMP	LD01 5	5	0	0	1	1
NVIC154SPHEROID SEL 1	COMP	LD01 5	5	0	0	1	1
NVIC155SPHEROID SEL 2	COMP	LD01 5	5	0	0	1	1
NVIC156SPHEROID SEL 3	COMP	LD01 5	5	0	0	1	1
NVIC157STRT SRCH M	COMP	LD01 5	5	0	0	1	1
NVIC158STRT SRCH S-A	COMP	LD01 5	5	0	0	1	1
NVIC159STRT SRCH S-B	COMP	LD01 5	5	0	0	1	1
NVIC160PWR STBY	COMP	LD01 5	5	0	0	1	1
NVIC161PWR ON	COMP	LD01 5	5	0	0	1	1
NVIC215KYBD 1	COMP	LD01 5	5	0	0	1	1
NVIC216KYBD 2	COMP	LD01 5	5	0	0	1	1
NVIC217KYBD 4	COMP	LD01 5	5	0	0	1	1
NVIC218KYBD 8	COMP	LD01 5	5	0	0	1	1
NVIC219STEER 3	COMP	LD01 5	5	0	0	1	1
NVIC220STEER 2	COMP	LD01 5	5	0	0	1	1



NVIC221STEER 1	COMP	LD01	5	5	0	0	1	1
NVIC223A/P SW	COMP	LD01	5	5	0	0	1	1
NVIC224A/P SW	COMP	LD01	5	5	0	0	1	1
NVIC226ENTER SW	COMP	LD01	5	5	0	0	1	1
NVIC227POS UPDATE SW	COMP	LD01	5	5	0	0	1	1
NVIC228INSERT DISP SW	COMP	LD01	5	5	0	0	1	1
NVIC229HOLD RELEASE SW	COMP	LD01	5	5	0	0	1	1
NVIC230CLEAR SW	COMP	LD01	5	5	0	0	1	1
NVIC240TRIAD 3	COMP	LD01	5	5	0	0	1	1
NVIC241TRIAD 2	COMP	LD01	5	5	0	0	1	1
NVIC242TRIAD 1	COMP	LD01	5	5	0	0	1	1
NVIC243SDA 10K NEG 8	COMP	LD01	5	5	0	0	1	1
NVIC244SDA 10K NEG 4	COMP	LD01	5	5	0	0	1	1
NVIC245SDA 10K NEG 2	COMP	LD01	5	5	0	0	1	1
NVIC246SDA 10K NEG 1	COMP	LD01	5	5	0	0	1	1
NVIC247SDA 1K NEG 8	COMP	LD01	5	5	0	0	1	1
NVIC248SDA 1K NEG 4	COMP	LD01	5	5	0	0	1	1
NVIC249SDA 1K NEG 2	COMP	LD01	5	5	0	0	1	1
NVIC250SDA 1K NEG 1	COMP	LD01	5	5	0	0	1	1
NVIC251SDB 1K NEG 1	COMP	LD01	5	5	0	0	1	1
NVIC252SDB 10K NEG 4	COMP	LD01	5	5	0	0	1	1
NVIC253SDB 10K NEG 2	COMP	LD01	5	5	0	0	1	1
NVIC254SDB 10K NEG 1	COMP	LD01	5	5	0	0	1	1
NVIC255SDB 1K NEG 8	COMP	LD01	5	5	0	0	1	1
NVIC256SDB 1K NEG 4	COMP	LD01	5	5	0	0	1	1
NVIC257SDB 1K NEG 2	COMP	LD01	5	5	0	0	1	1
NVIC258SDB 10K NEG 8	COMP	LD01	5	5	0	0	1	1
NVIC261I/D A	COMP	LD01	5	5	0	0	1	1
NVIC262I/D B	COMP	LD01	5	5	0	0	1	1
NVIC263I/D C	COMP	LD01	5	5	0	0	1	1
NVIC264I/D D	COMP	LD01	5	5	0	0	1	1
NVIC265MODE SW C	COMP	LD01	5	5	0	0	1	1
NVIC266MODE SW D	COMP	LD01	5	5	0	0	1	1
NV102 ARF	NV1A	MA	100KHZ					1
NV102 CRF	NV1B	MA	100KHZ					1
NV1E1 RF	NV1D	MA	100KHZ					1
NV1F1 ETHOPIC	COMP	LD01	5	5	0	0	1	1
NV1F1 FPOLAR	COMP	LD01	5	5	0	0	1	1
NV1F1 J-DATA	COMP							1
NV1F1 K-DATA	COMP	RD	3.3MHZ					1
NV1F1 L-LAST ADDRESS	COMP							1
NV1F1 M-LAST ADDRESS	COMP	RD	3.3MHZ					1
NV1G1 HSIM TAS SIG	NV7A	LA10	10	4100	0	DC	4 1K 0 DC1	1
NV1G1 JLRN/LRN APR	NV7A	LD01	5	5	0	0	1 5 0 500 P1	1
NV1G1 LDEP ANGLE	NV7A	LA06	20	4100	0	DC	4 1K 0 DC1	1
NV1G1 MREL FRG	NV7A	LA10	10	4100	0	DC	4 1K 0 DC1	1
NV1G1 NLOGIC GND	PR5A	PR						1
NV1G1 RACFT GND	PR5A	PR						1
NV1G1 TIN RRG LT	NV1H	LD01	10	5	0	0	1 5 0 500 P1	1
NV1G1 XPICKLE OUT	ID1D	LD01	100	5	0	0	1 5 0 500 P1	1
NV1G1SOLRN APPR	NV7A	LD01	5	5	0	0	1 5 0 500 P1	1
NV1G1SK-ADI HORIZ POINTER	NV7A							1
NV1G1SN-ADI HORIZ POINTER	NV7A	LA10	20	5100-2.5	DC		5 500-2.5 DC1	1
NV1G1SQ-ADI VERT POINTER	NV7A							1
NV1G1SS-ADI VERT POINTER	NV7A	LA10	20	5100-2.5	DC		5 500-2.5 DC1	1
NV1G2 ALRN LAY	COMP	LD01	5	5	0	0	1	1
NV1G2 BLRN	COMP	LD01	5	5	0	0	1	1
NV1G2 CLRN APPROACH	COMP	LD01	5	5	0	0	1	1
NV1G2 DALT UPDATE	COMP	LA10	5	26100	0	DC		1
NV1G2 EADF/FC	COMP	LD01	5	5	0	0	1	1

NV1G2 RPICKLE SIGNAL	COMP	LD01100	28	0	0	1			1
NV1H1 ZFC/HUMING	NV1G	LD01	5	5	0	0	1	5	0 500 P1
NV1H1 SALT UPDATE	NV1G	LD01	5	5	0	0	1	5	0 500 P1
NV1H1 SACFT GND	PR5A	PR							1
NV11 AGND	PR5A	PR							1
NV11 TEMPERATURE PROBE H	COMP	LA10	5	3/100			0 AC		1
NV11 TEMPERATURE PROBE RET	COMP								1
NV11 TEMPERATURE PROBE C	COMP	LA10	5	3/100			0 AC		1
NV1J1 RLIGHT POWER	NV1F	PR							1
NV1J1 RLIGHT POWER	NV1F	PR							1
NV1J1 RLIGHT POWER	NV1F	PR							1
NV1J1 SLIGHT PWR	NV1C	PR							1
NV1J1 TLIGHT PWR	NV1C	PR							1
NV1J1 ULIGHT PWR	NV1C	PR							1
NV1J1 VLIGHT PWR	NV1C	PR							1
NV1J1 WACFT GND	PR5A	PR							1
NV1J1 XLIGHT PWR	NV1C	PR							1
NV1J1 YLIGHT PWR	NV1C	PR							1
NV1K1 F28V RETURN	NV1B	PR							1
NV2A1 1+27VDC (H1)	COMP	PR							1
NV2A1 2+27VDC (H1)	COMP	PR							1
NV2A1 4GND	PR5A	PR							1
NV2A1 5SENSE	COMP	LD01	1	5	0	0	1	5	0 500 P1
NV2A1 727.5VDC (LO)	COMP	PR							1
NV2A1 827.5VDC (LO)	COMP	PR							1
NV2B1 UDA1A (H1)	COMP	MD					40 AT 100KHZ		1
NV2B1 VDATA (LO)	COMP								1
NV2B1 WSYNC (H1)	COMP	MD					1 AT 100KHZ		1
NV2B1 XSYNC (LO)	COMP								1
NV2B1 YCLOCK (H1)	COMP	MD					3.072MHZ		1
NV2B1 ZCLOCK (LO)	COMP								1
NV2B1 SF LAMP TEST	COMP	LD01	5	28	0	0	1		1
NV2C1 UNEG OFF	COMP	LD01	5	28	0	0	1		1
NV2C1 VSTANDBY	COMP	LD01	5	28	0	0	1		1
NV2C1 SESTANDBY OR ALIGN	COMP	LD01	5	28	0	0	1		1
NV2C1 SF ATTITUDE	COMP	LD01	5	28	0	0	1		1
NV3A8 7SHIELD GND	PR5A	PR							1
NV3A8 8GROUND	PR5A	PR							1
NV3A8 14 MOTOR CONTROL	NV3B	PR							1
NV3A8 17 100HZ EXCITATION 1	NV3B	PR							1
NV3A8 18 100HZ EXCITATION 2	NV3B	PR							1
NV3A8 21 115V 400HZ	NV3B								1
NV3B1 BBEARING SYNCHRO X	NV7A	LS13	1011.8	50			11.8	200	1
NV3B1 CBEARING SYNCHRO Z	NV7A								1
NV3B1 KRATE SIGNAL 1	NV3A	PR							1
NV3B1 LRATE SIGNAL 2	NV3A	PR							1
NV3B1 N115VAC 3PHASE GUT	NV3A	PR							1
NV3B1 PBEARING SYNCHRO Z	NV7A PR5A						GND		1
NV3B1 XPOWER GND	PR5A	PR							1
NV3B2 ADP RF	NV3A	HA					225-399.95MHZ		1
NV4A1 FAZ CX THETA C BOTTOM	PR5A	PR							1
NV4A1 HKULL CX-0G	PR5A	PR							1
NV4A1 KPITCH CX-EXT	PR5A	PR							1
NV4A1 RAZ CX (X)	NV4C	LS13	1011.8600				11.8	20	1
NV4A1 SAZ CX (Y)	NV4C								1
NV4A1 TAZ CX (Z)	NV4C								1
NV4A1 UDG ROLL CX (X)	NV4H	LS13	1011.8600				11.8	20	1
NV4A1 VDG ROLL CX (Y)	NV4H								1
NV4A1 WDG ROLL CX (Z)	NV4H								1



NV4A1 XROLL CX VG (X)	NV4B	LS13 1011.8600	11.8	20	1
NV4A1 YROLL CX VG (Y)	NV4B				1
NV4A1SDPFITCH CX (X)	NV4H	LS13 1011.8600	11.8	20	1
NV4A1SDPFITCH CX (X)	NV4H	LS13 1011.8600	11.8	20	1
NV4A1SCPFITCH CX (Z)	NV4H				1
NV4A1SDPFITCH CX (INT) (X)	NV4A	LS13 1011.8600	11.8	20	1
NV4A1SEPFITCH CX (INT) (Y)	NV4A				1
NV4A1SFPITCH CX (INT) (Z)	NV4A				1
NV4A1SGINNER ROLL CX (X)	NV4B	LS13 1011.8600	11.8	20	1
NV4A1SHINNER ROLL CX (Y)	NV4B				1
NV4A2 FLEVELING SIGNAL	NV4B	PR			1
NV4A2 PFITCH TORQ A	NV4A				1
NV4A2 LPITCH TORQ B	NV4A				1
NV4A2 PFITCH SW COM	NV4B	LD01 5 28 0 0 1 28 0 700 P1			
NV4A2 PFITCH CAPACITOR	NV4B	LD01 5 28 0 0 1 28 0 700 P1			
NV4A2 SPURER FAILURE	NV4B	LD01 5 28 0 0 1 28 0 700 P1			
NV4A2SAROLL SW B	NV4A	LD01 5 28 0 0 1 28 0 700 P1			
NV4A2SDRROLL SW A	NV4A	LD01 5 28 0 0 1 28 0 700 P1			
NV4A2SRROLL GEN OUT (HOT)	NV4B	LA10 10 .35100 0 DC .35 350 0 DC1			
NV4A2SGROLL GEN OUT (COLD)	NV4B	LA10 10 .35100 0 DC .35 350 0 DC1			
NV4A2SRPFITCH GEN OUT (HOT)	NV4A	LA10 10 .35100 0 DC .35 350 0 DC1			
NV4A2SLEVELING SIGNAL (A)	NV4B	LA08 10 .5100-.25 DC .5 2K-.25 DC1			
NV4A2SLEVELING SIGNAL (B)	NV4B	LA08 10 .5100-.25 DC .5 2K-.25 DC1			
NV4B1 A115VAC PWR GND	NV4A	PR			1
NV4B1 B115VAC PHASE A PAR	NV4A	PR			1
NV4B1 C115VAC PHASE B PAR	NV4A	PR			1
NV4B1 D115VAC PHASE C PAR	NV4A	PR			1
NV4B1 FLEV INPUT	NV4A	LA10 10 .5100-.25 DC .5 2K-.25 DC1			
NV4B1 GLEV EXCIT	NV4A	PR			1
NV4B1 HLEV CONT	NV4A	LA10 10 48100 -24 AC 48 800 -24 AC1			
NV4B1 JLEV FIXED	NV4A	PR			1
NV4B1 PFITCH ERECT VOLTS	NV4A	LD01 5 28 0 0 1 28 0 700 P1			
NV4B1 PFITCH ERECT VOLTS	NV4A	LD01 5 28 0 0 1 28 0 700 P1			
NV4B1 PFITCH SERVO CT	NV4A	LS10 1011.8600	11.8	20	1
NV4B1 XROLL M-G FIXED	NV4A	PR			1
NV4B1SCROLL ERECT VOLTS	NV4A	LD01 5 28 0 0 1 28 0 700 P1			
NV4B1SGROLL M-G CONT	NV4A	LA10 10 35 43 0 AC 35 70 0 AC1			
NV4B1SRPFITCH GEN OUT (GND)	NV4A				1
NV4B1SRPFITCH M-G CONT	NV4A	LA10 10 20100 0 AC 25 200 0 AC1			
NV4B1SRPFITCH M-G FIXED	NV4A	PR			1
NV4B1SFPITCH GEN EXCIT	NV4A	PR			1
NV4B1STRROLL GEN EXCIT	NV4A	PR			1
NV4B2 EROLL ALARM	NV4B	LD 1 5 28 0 0 1 28 0 700 P1			
NV4B2 FROLL ALARM	NV4B	LD 1 5 28 0 0 1 28 0 700 P1			
NV4B2 HUND	PR5A	PR			1
NV4B2 LFAILURE WARN	PR5A	PR			1
NV4C1 A115VAC N PAR	PR5A	PR			1
NV4C1 SSLAVING TORQ FIXED	NV4A	PR			1
NV4C1 SSLAVING TORQ CONT	NV4A	LA10 10 8100 -4 DC 8 100 -4 DC1			
NV4C1SFSYNC METER	NV4C	LA06 10 1100 -.5 DC 1 1K -.5 DC1			
NV4C1SGSYNC METER	NV4C				1
NV4C1SPGYRO CT OUT	NV4C	LS13 1011.8600	11.8	20	1
NV4C1SGGYRO CT OUT	NV4C	LS13 1011.8600	11.8	20	1
NV4C2 J26V SYNCHRO EXCIT	NV4C	PR			1
NV4C2 K26V SYNCHRO EXCIT	NV4C	PR			1
NV4C2 X001PUT DATA XMIT X	NV4B	LS13 1011.8 50	11.8	200	1
NV4C2 X001PUT DATA XMIT Y	NV4B				1
NV4C2 X001PUT DATA XMIT Z	NV4B				1
NV4C2SACOMPASS X	NV4C	LS10 1011.8 50	11.8	200	1
NV4C2SBCOMPASS Y	NV4C				1





NV5C1 LFREQUENCY CONTROL	NV5ANV5B	LD01	1	0	0	0	1	100	10K	40	A1
NV5C1 MFREQUENCY CONTROL	NV5ANV5B	LD01	1	0	0	0	1	100	10K	40	A1
NV5C1 HFREQUENCY CONTROL	NV5ANV5B	LD01	1	0	0	0	1	100	10K	40	A1
NV5C1 PFREQUENCY CONTROL	NV5ANV5B	LD01	1	0	0	0	1	100	10K	40	A1
NV5C1 GROUND	PR5A	PR									1
NV5C1 VA-B SWITCH	NV5ANV5B	LD01	1	0	0	0	1	100	10K	40	A1
NV5C1 LOCALIZER AUDIO	CU1A	AA0418K									1
NV5C1 APOWEE SWITCH	NV5ANV5B	LD01	5	0	0	0	1	100	10K	40	A1
NV5C1 LOCALIZER AUDIO OUT	CU1A	AA0418K									1
NV5D1 LOCALIZER RF	NV5B	HA									108.1-111MHz
NV5E1 MKR BKN RF	NV5A	HA									75MHz
NV5F1 GUIDE SLOPE RF	NV5A	HA									329.6-334.7MHz
NV6A2 AANT LOBBING ENABLE	PR5A	PR									1
NV6A2 DEV INPUT	NV6E	LA06	10								5100-2.5 DC 5 5K-2.5 DC1
NV6A2 ECU-FROM INPUT	NV6E	LD01	5								2810K 0 1 28 0 15K P1
NV6A2 FDEV/TIO-FROM IN COM	NV6E										1
NV6A2 GDEV OUTPUT	NV6E	LA06	10								5100-2.5 DC 5 5K-2.5 DC1
NV6A2 HDEV OUTPUT COMMON	NV6E										1
NV6A2 TIO-FROM OUTPUT	NV6E	LD01	5								2810K 0 1 28 0 15K P1
NV6A2 TIO-FROM OUTPUT COM	NV6E										1
NV6A2 MIDENT INPUT COMMON	NV6B	AA0418K									1
NV6A2 MIDENT INPUT	NV6B	AA0418K									1
NV6A2SDCOSINE THETA+60	NV7A	LS13	1011.8	50							11.8 200
NV6A2SESINE THETA+60	NV7A	LS13	1011.8	50							11.8 200
NV6A2SFBRG FLAG	NV7A	LD01	5								28 7K 0 1 28 0 10K P1
NV6A2SGTERRARY A	NV7A	LW32350									SERIAL DIGITALSERIAL DIGITAL 1
NV6A2SHERRARY B	NV7A	LW32350									SERIAL DIGITALSERIAL DIGITAL 1
NV6A2SPI15VAC COMMON	PR5A	PR									1
NV6A2SGROUND	PR5A	PR									1
NV6A3 RF IN/OUT	NV6C	HA									962-1213MHz
NV6A4 RF IN/OUT	NV6C	HA									962-1213MHz
NV6A5 SUPPRESSION IN/OUT	MS1A	AD									1MHz
NV6B GROUND	PR5A	PR									1
NV6B AUDIO OUT COMMON	CU1A	AA0418K									1
NV6B PRECEIVE	NV6A	LD01	1								5 0 0 0 1 5 0 500 P1
NV6B FIR/A-A	NV6A	LD01	1								5 0 0 0 1 5 0 500 P1
NV6B SA/I CHAN	NV6A	LD01	1								5 0 0 0 1 5 0 500 P1
NV6B TSELF TEST	NV6A	LD01	5								5 0 0 0 1 5 0 500 P1
NV6B UCHAN COMMON	NV6A										1
NV6B V80 COURSE CHAN	NV6A	LD01	1								5 0 0 0 1 5 0 500 P1
NV6B W40 COURSE CHAN	NV6A	LD01	1								5 0 0 0 1 5 0 500 P1
NV6B X20 COURSE CHAN	NV6A	LD01	1								5 0 0 0 1 5 0 500 P1
NV6B 110 COURSE CHAN	NV6A	LD01	1								5 0 0 0 1 5 0 500 P1
NV6B Z8 FINE CHAN	NV6A	LD01	1								5 0 0 0 1 5 0 500 P1
NV6B 3A4 FINE CHAN	NV6A	LD01	1								5 0 0 0 1 5 0 500 P1
NV6B 5B2 FINE CHAN	NV6A	LD01	1								5 0 0 0 1 5 0 500 P1
NV6B 5C1 FINE CHAN	NV6A	LD01	1								5 0 0 0 1 5 0 500 P1
NV6C1 RF IN/OUT	NV6A	HA									962-1213MHz
NV6D1 RF IN/OUT	NV6A	HA									962-1213MHz
NV6E1 25V RETURN	PR5A	PR									1
NV6E1 520V DIST COMMON	PR5A	PR									1
NV6E1 726V HEADING COMMON	PR5A	PR									1
NV6E1 1520V POINTER 2 COMMON	PR5A	PR									1
NV6E1 1726V POINTER 1 COMMON	PR5A	PR									1
NV6E1 GROUND	PR5A	PR									1
NV7A 1BEARING NO2 (X)	NV6E	LS13	1011.8	50							11.8 200
NV7A 2BEARING NO2 (Y)	NV6E										1
NV7A 3BEARING NO2 (Z)	NV6E										1
NV7A 4TERRARY A	NV6E	LW32350									SERIAL DIGITALSERIAL DIGITAL 1
NV7A 5TERRARY B	NV6E	LW32350									SERIAL DIGITALSERIAL DIGITAL 1



NV7A	6COS THETA +60 (X)	NV6E	LS13	1011.8	50		11.8	200		1
NV7A	7SIN THETA +60 (Y)	NV6E	LS13	1011.8	50		11.8	200		1
NV7A	8BRG FLAG	NV6E	LD01	1	28	7K	0	1	28	0 10K P1
NV7A	9G/S DEV +(UP)	NV6E	LA06	10	5100-2.5	DC	5	5K-2.5	DC1	1
NV7A	10G/S DEV +(DOWN)	NV6E								1
NV7A	11+FLAG (G/S)	NV6E	LD01	5	28	7K	0	1	28	0 10K P1
NV7A	12-FLAG (G/S)	NV6E								1
NV7A	13VERT PTR FLAG (+)	NV4H	LD01	5	28	7K	0	1	28	0 10K P1
NV7A	14VERT PTR FLAG (-)	NV4H								1
NV7A	15HORIZ PTR (+)	NV4H	LA06	20	5100-2.5	DC	5	5K-2.5	DC1	1
NV7A	16HORIZ PTR (-)	NV4H								1
NV7A	17VERTICAL PTR (+)	NV4H	LA06	20	5100-2.5	DC	5	5K-2.5	DC1	1
NV7A	18VERTICAL PTR (-)	NV4H								1
NV7A	19SIN COURSE	CUMP	LS13	1011.8	50					1
NV7A	20COS COURSE	CUMP	LS13	1011.8	50					1
NV7A	21COURSE COMMON	CUMP								1
NV7A	2214/2bVAC	NV1G								1
NV7A	2328VDC LRN LAY	NV1G	LD01	5	28	0	0	1	28	0 700 P1
NV7A	24LRN MODE DISP	NV1G	LD01	5	28	0	0	1	28	0 700 P1
NV7A	25-ADI HORIZ POINTER	NV1G								1
NV7A	26+ADI HORIZ POINTER	NV1G	LA06	20	5100-2.5	DC	5	5K-2.5	DC1	1
NV7A	28-ADI VERT POINTER	NV1G								1
NV7A	29+ADI VERT POINTER	NV1G	LA06	20	5100-2.5	DC	5	5K-2.5	DC1	1
NV7A	30STEERING CMD	CUMP	LD01	20	28	0	0	1		1
NV7A	30STEERING CMD	CUMP	LD01	20	28	0	0	1		1
NV7A	31AZIMUTH STEERING	CUMP	LA08	20	5100-2.5	DC				1
NV7A	32STEERING CMD	CUMP	LD01	20	28	0	0	1		1
NV7A	33LOCALIZER DEVIATION	CUMP	LA06	10	5100-2.5	DC				1
NV7A	34EL STEERING	CUMP	LA08	20	5100-2.5	DC				1
NV7A	35EL STEERING	CUMP								1
NV7A	36AZ STEERING	CUMP								1
NV7A	37AZ STEERING REL	CUMP	LD01	1	28	0	0	1		1
NV7A	38LOCALIZER DEVIATION	CUMP								1
NV7B	11ACAN	NV7A	LD01	1	28	0	0	1	28	0 700 P1
NV7B	2LORAN	NV7A	LD01	1	28	0	0	1	28	0 700 P1
NV7B	3GRD	NV7A								1
NV7B	4INERTIAL	NV7A	LD01	1	28	0	0	1	28	0 700 P1
RT1	13IR COOL	CUMP	LD 1100		5500		0	85		1
RT1	21FUSE	CUMP	LD 1100		5500		0	85		1
RT1	22FUSE	CUMP	LD 1100		5500		0	85		1
RT1	24STICK GRIP AFCS	CUMP	LD 1100		5500		0	85		1
RT1	29TIT	CUMP	LD 1100		5500		0	85		1
RT1	30IFIS	CUMP	LD 1100		5500		0	85		1
RT1	31IFIS	CUMP	LD 1100		5500		0	85		1
RT1	32IFIS	CUMP	LD 1100		5500		0	85		1
RT1	33IFIS	CUMP	LD 1100		5500		0	85		1
RT1	34IFIS	CUMP	LD 1100		5500		0	85		1
RT1	35IFIS	CUMP	LD 1100		5500		0	85		1
RT1	36NOSE GEAR STEERING	CUMP	LD 1100		5500		0	85		1
RT1	37A/A	CUMP	LD 1100		5500		0	85		1
RT1	38A/A	CUMP	LD 1100		5500		0	85		1
RT1	39A/A	CUMP	LD 1100		5500		0	85		1
RT1	41ALTITUDE	CUMP	LD 1100		5500		0	85		1
RT1	42OXYGEN LEVEL	CUMP	LD 1100		5500		0	85		1
RT1	44STALL WARNING	CUMP	LD 1100		5500		0	85		1
RT1	48NGS CUTOUT	CUMP	LD 1100		5500		0	85		1
RT1	57RADAR ALARM MON	CUMP	LD 1100		5500		0	85		1
RT1	58RAIN REMOVE OVERHEAT	CUMP	LD 1100		5500		0	85		1
RT1	61AIRSPEED IND DIS PT	CUMP	LD 1100		5500		0	85		1
RT2	1AFTI ICE	CUMP	LD 1100		5500		0	85		1



RT2	2ANII-ICE	COMP	LD	1100	5500	0	85	1
RT2	3WINGFOLD HANDLE 1	COMP	LD	1100	5500	0	85	1
RT2	4WINGFOLD HANDLE 2	COMP	LD	1100	5500	0	85	1
RT2	5WINGFOLD CONTROL	COMP	LD	1100	5500	0	85	1
RT2	6WINGFOLD CONTROL	COMP	LD	1100	5500	0	85	1
RT2	7ARREST GEAR HANDLE	COMP	LD	1100	5500	0	85	1
RT2	8INDICATOR LIGHT TEST	COMP	LD	1100	5500	0	85	1
RT2	8INDICATOR LIGHT TEST	COMP	LD	1100	5500	0	85	1
RT2	9ADVISORY LIGHT DIM	COMP	LD	1100	5500	0	85	1
RT2	10APPROACH LIGHTS	COMP	LD	1100	5500	0	85	1
RT2	11HOOK BYPASS	COMP	LD	1100	5500	0	85	1
RT2	12POSITION LIGHT FLASH	COMP	LD	1100	5500	0	85	1
RT2	13WING POSITION LIGHT	COMP	LD	1100	5500	0	85	1
RT2	14WING POSITION LIGHT	COMP	LD	1100	5500	0	85	1
RT2	15TAIL POSITION LIGHT	COMP	LD	1100	5500	0	85	1
RT2	16TAIL POSITION LIGHT	COMP	LD	1100	5500	0	85	1
RT2	17ANTI COLLISION LIGHT	COMP	LD	1100	5500	0	85	1
RT2	18ANTI COLLISION LIGHT	COMP	LD	1100	5500	0	85	1
RT2	19FORMATION LIGHT	COMP	LD	1100	5500	0	85	1
RT2	20FORMATION LIGHT	COMP	LD	1100	5500	0	85	1
RT2	22SEAT POSITION	COMP	LD	1100	5500	0	85	1
RT2	23SEAT CONT	COMP	LD	1100	5500	0	85	1
RT2	24SEAT CONTROL	COMP	LD	1100	5500	0	85	1
RT2	25CHAFF	COMP	LD	1100	5500	0	85	1
RT2	26CHAFF	COMP	LD	1100	5500	0	85	1
RT2	27CHAFF	COMP	LD	1100	5500	0	85	1
RT2	28CHAFF	COMP	LD	1100	5500	0	85	1
RT2	29TOSS/STIK	COMP	LD	1100	28	0	0	1
RT2	32RAI OOMF	COMP	LD	1100	5500	0	85	1
RT2	34ELECTRONIC SW DEMOD	COMP	LD	1100	0	0	0	1
RT2	35AK PROBE EXT	COMP	LD	1100	5500	0	85	1
RT2	36AK PROBE RET	COMP	LD	1100	5500	0	85	1
RT2	37RH FWD FUS TANK	COMP	LD	1100	28	0	0	1
RT2	38LH FWD FUS TANK	COMP	LD	1100	28	0	0	1
RT2	39SWEEP GEN SIGNAL	COMP	LD	1100	28	0	0	1
RT2	40LAUNCH ALERT	COMP	LD	1100	0	0	0	1
RT2	41ECM TEST	COMP	LD	1100	0	0	0	1
RT2	42SAM 2	COMP	LD	1100	0	0	0	1
RT2	43SAM 3	COMP	LD	1100	0	0	0	1
RT2	44AI	COMP	LD	1100	0	0	0	1
RT2	45SAM M1	COMP	LD	1100	0	0	0	1
RT2	46AAA	COMP	LD	1100	0	0	0	1
RT2	47CF741 RES-P269-C	COMP	LD	1100	28	0	0	1
RT2	48CF741 RES-P269-F	COMP	LD	1100	28	0	0	1
RT2	49RED FLOOD LTS	COMP	LD	1100	5500	0	85	1
RT2	50RED FLOOD LTS	COMP	LD	1100	5500	0	85	1
RT2	51LE FLAPS	COMP	LD	1100	28	0	0	1
RT3	1SIDIS BOX ISO	COMP	LD	1100	28	0	0	1
RT3	2IACAN NAV FLAG	COMP	LD	1100	5500	0	85	1
RT3	3HSI IACAN OFF	COMP	LD	1100	0	0	0	1
RT3	4HSI NAV CNTR	COMP	LD	1100	0	0	0	1
RT3	5ASW-25 KCVR	COMP	LD	1100	0	0	0	1
RT3	6ASW-25 KCVR	COMP	LD	1100	0	0	0	1
RT3	7BAI PRESSURE	COMP	LD	1100	5500	0	85	1
RT3	8RH AVIONICS BAY OOMF	COMP	LD	1100	5500	0	85	1
RT3	9RAI RETRACE TEST	COMP	LD	1100	5500	0	85	1
RT3	10UMP TANK NO.1	COMP	LD	1100	28	0	0	1
RT3	11UMP TANK NO.2	COMP	LD	1100	28	0	0	1
RT3	12ATTITUDE	COMP	LD	1100	5500	0	85	1
RT3	13RH FWD FUEL TANK	COMP	LD	1100	28	0	0	1

RT3	14ACL READY	COMP	LD 1100	0	0	0	1	1
RT3	15CMD CONTROL	COMP	LD 1100	0	0	0	1	1
RT3	16DRUP	COMP	LD 1100	0	0	0	1	1
RT3	1710 SEC	COMP	LD 1100	0	0	0	1	1
RT3	18NO MESSAGE	COMP	LD 1100	0	0	0	1	1
RT3	19NO MESSAGE	COMP	LD 1100	0	0	0	1	1
RT3	20LDG CHECK	COMP	LD 1100	0	0	0	1	1
RT3	21TILT	COMP	LD 1100	0	0	0	1	1
RT3	22ADC FAIL	COMP	LD 1100	28	0	0	1	1
RT3	24DECK COMPRESS	COMP	LD 1100	5500	0	85		1
RT3	25HH GEAR DN + LKD	COMP	LD 1100	5500	0	85		1
RT3	26HH GEAR UP + LKD	COMP	LD 1100	5500	0	85		1
RT3	27PC2 PRESSURE	COMP	LD 1100	0	0	0	1	1
RT3	28EMER ACCUM ISO	COMP	LD 1100	5500	0	85		1
RT3	30LAUNCH BAR ACT POS	COMP	LD 1100	5500	0	85		1
RT3	31LAUNCH BAR EXT PRESS	COMP	LD 1100	5500	0	85		1
RT3	33OIL PRESSURE	COMP	LD 1100	5500	0	85		1
RT3	34FUEL FILTER BYPASS	COMP	LD 1100	5500	0	85		1
RT3	35FUEL SYSTEM PRESSURE	COMP	LD 1100	5500	0	85		1
RT3	36MAN SYS FUEL CONTROL	COMP	LD 1100	5500	0	85		1
RT3	37ARRESTING GEAR DN	COMP	LD 1100	5500	0	85		1
RT3	38ARREST GEAR UP + LKD	COMP	LD 1100	5500	0	85		1
RT3	39ANTI-ICING VALVE	COMP	LD 1100	28	0	0	1	1
RT3	40MRT BLEED CUTOFF	COMP	LD 1100	5500	0	85		1
RT3	41APC BLEED CUTOFF	COMP	LD 1100	5500	0	85		1
RT3	42SMOKE ABATE FLOAT	COMP	LD 1100	5500	0	85		1
RT3	44GUN VENT VALVE-RH	COMP	LD 1100	5500	0	85		1
RT3	45GUN VENT VALVE	COMP	LD 1100	5500	0	85		1
RT4	18LE UP + LKD	COMP	LD 1100	5500	0	85		1
RT4	19LE UP + LKD	COMP	LD 1100	5500	0	85		1
RT4	20LE UP + LKD	COMP	LD 1100	5500	0	85		1
RT4	21LE UP + LKD	COMP	LD 1100	5500	0	85		1
RT4	22FUEL PRESSURE	COMP	LD 1100	5500	0	85		1
RT4	23WING FUEL FLOAT	COMP	LD 1100	5500	0	85		1
RT4	24WING PRESS THERM	COMP	LD 1100	5500	0	85		1
RT4	44LE FLAPS	COMP	LD 1100	5500	0	85		1
RT4	45LE FLAP CYL	COMP	LD 1100	5500	0	85		1
RT4	46LE FLAPS	COMP	LD 1100	5500	0	85		1
RT4	47LE FLAPS	COMP	LD 1100	5500	0	85		1
RT4	48LE FLAPS	COMP	LD 1100	5500	0	85		1
RT4	49LE FLAPS	COMP	LD 1100	5500	0	85		1
RT4	63RUDDER NEUTRAL	COMP	LD 1100	5500	0	85		1
RT5	1LH GEAR DN + LKD	COMP	LD 1100	5500	0	85		1
RT5	2LH GEAR UP + LKD	COMP	LD 1100	5500	0	85		1
RT5	3PC1 PRESSURE	COMP	LD 1100	0	0	0	1	1
RT5	4WT ON GEAR	COMP	LD 1100	5500	0	85		1
RT5	5GEN TEST POINT	COMP	LD 1100	5500	0	85		1
RT5	6EMER HYD ACCUM TEST	COMP	LD 1100	5500	0	85		1
RT5	7EXT TANK GRD REF	COMP	LD 1100	5500	0	85		1
RT5	9NG + LOCKED	COMP	LD 1100	5500	0	85		1
RT5	10EMER HYD ACCUM TEST	COMP	LD 1100	5500	0	85		1
RT5	31ECM LOGIC	COMP	LD 1100	28	0	0	1	1
RT5	32ECM LOGIC	COMP	LD 1100	28	0	0	1	1
RT5	33PITCH ACTUATOR	COMP	LD 1100	28	0	0	1	1
RT5	34ALTITUDE TEST	COMP	LD 1100	5500	0	85		1
RT5	35LH AVIONIC BAY DOOR	COMP	LD 1100	5500	0	85		1
RT5	36ASN-50 PWK	COMP	LD 1100	5500	0	85		1
RT5	37PITCH COMPUTER	COMP	LD 1100	28	0	0	1	1
RT5	38ROLL COMPUTER	COMP	LD 1100	28	0	0	1	1
RT5	39CP741-P3002-J	COMP	LD 1100	28	0	0	1	1

R15	40CP741-P3002-G	COMP	LD 1100	28	0	0	1	1
R15	41CP741-P3002-F	COMP	LD 1100	28	0	0	1	1
R15	42CP741-P3002-E	COMP	LD 1100	28	0	0	1	1
R15	43AHH-2-P3189-MM	COMP	LD 1100	28	0	0	1	1
R15	44CP741-P3001-V	COMP	LD 1100	28	0	0	1	1
R15	45SPEED BRAKE POS	COMP	LD 1100	5500	0	85		1
R15	46NG UP + LOCKED	COMP	LD 1100	5500	0	85		1
R15	47IAW ACTUATOR	COMP	LD 1100	28	0	0	1	1
R15	48TIME DELAY 1	COMP	LD 1100	5500	0	85		1
R15	49TIME DELAY 2	COMP	LD 1100	5500	0	85		1
R15	51TIME DELAY 4	COMP	LD 1100	5500	0	85		1
R15	52NON-ESSENTIAL LOADS	COMP	LD 1100	5500	0	85		1
R15	52NON-ESSENTIAL LOADS	COMP	LD 1100	5500	0	85		1
R15	541 PRIORITY LOADS	COMP	LD 1100	5500	0	85		1
R15	552 PRIORITY LOADS	COMP	LD 1100	5500	0	85		1
R15	563 PRIORITY LOADS	COMP	LD 1100	5500	0	85		1
R15	574 PRIORITY LOADS	COMP	LD 1100	5500	0	85		1
R15	585 PRIORITY LOADS	COMP	LD 1100	5500	0	85		1
R15	607 PRIORITY LOADS	COMP	LD 1100	5500	0	85		1
R15	618 PRIORITY LOADS	COMP	LD 1100	5500	0	85		1
R15	62LOAD MONITOR	COMP	LD 1100	5500	0	85		1
R15	63ROLL ACTUATOR	COMP	LD 1100	28	0	0	1	1
R16	1REFUELING	COMP	LD 1100	28	0	0	1	1
R16	2BAND SELECT	COMP	LD 1100	5500	0	85		1
R16	3BAND SELECT	COMP	LD 1100	5500	0	85		1
R16	41ARGE1 REJECT	COMP	LD 1100	5500	0	85		1
R16	5MASTER CAMERA	COMP	LD 1100	5500	0	85		1
R16	6MASTER CAMERA	COMP	LD 1100	5500	0	85		1
R16	7SPEED BRAKE CONTROL	COMP	LD 1100	5500	0	85		1
R16	8SPEED BRAKE CONTROL	COMP	LD 1100	5500	0	85		1
R16	9LG HANDLE	COMP	LD 1100	5500	0	85		1
R16	11APC COMPUTER	COMP	LD 1100	5500	0	85		1
R16	12EMER FLAPS	COMP	LD 1100	5500	0	85		1
R16	13MODE SELECT	COMP	LD 1100	5500	0	85		1
R16	14AFCS STANDBY	COMP	LD 1100	28	0	0	1	1
R16	15PITCH TRIM	COMP	LD 1100	5500	0	85		1
R16	16AFCS TEST	COMP	LD 1100	5500	0	85		1
R16	17AFCS ROTARY TEST	COMP	LD 1100	5500	0	85		1
R16	18AFCS ROTARY TEST	COMP	LD 1100	5500	0	85		1
R16	19AFCS ROTARY TEST	COMP	LD 1100	5500	0	85		1
R16	20AFCS ROTARY TEST	COMP	LD 1100	5500	0	85		1
R16	21CUNT AUG	COMP	LD 1100	28	0	0	1	1
R16	22FLAP HANDLE	COMP	LD 1100	5500	0	85		1
R16	23FLAP HANDLE	COMP	LD 1100	5500	0	85		1
R16	24TE FLAPS REEF	COMP	LD 1100	5500	0	85		1
R16	25TE FLAPS REEF	COMP	LD 1100	5500	0	85		1
R16	26NAV ENGAGE	COMP	LD 1100	28	0	0	1	1
R16	27PAIR ENGAGE	COMP	LD 1100	28	0	0	1	1
R16	28TEMP	COMP	LD 1100	5500	0	85		1
R16	29TEMP	COMP	LD 1100	5500	0	85		1
R16	30FUEL CONTROL	COMP	LD 1100	5500	0	85		1
R16	32LAUNCH BAR CONTROL	COMP	LD 1100	5500	0	85		1
R16	33LAUNCH BAR CONTROL	COMP	LD 1100	5500	0	85		1
R16	34DN LAD EMER REC	COMP	LD 1100	5500	0	85		1
R16	35ENGINE BLEED CONTROL	COMP	LD 1100	5500	0	85		1
R16	36EXT LIGHTS CONTROL	COMP	LD 1100	5500	0	85		1
R16	37LAND TAXI LT	COMP	LD 1100	5500	0	85		1
R16	38THERMAL CLOSURE CONT	COMP	LD 1100	5500	0	85		1
R16	39THERMAL CLOSURE CONT	COMP	LD 1100	5500	0	85		1



RT6	40IFR PROBE CONTROL	COMP	LD 1100	5500	0 85				1
RT6	41IFR PROBE CONTROL	COMP	LD 1100	5500	0 85				1
RT6	42WING TRANSFER CONT	COMP	LD 1100	5500	0 85				1
RT6	43WING TRANSFER CONT	COMP	LD 1100	5500	0 85				1
RT6	44EXTERNAL TANKS CONT	COMP	LD 1100	5500	0 85				1
RT6	45FUEL DUMP CONTROL	COMP	LD 1100	5500	0 85				1
RT6	46SMOKE ABATE CONTROL	COMP	LD 1100	5500	0 85				1
RT6	47RADAR CONTROL SIG	COMP	LD 1100	28 0	0 1				1
RT6	48MANUAL FIRE	COMP	LD 1100	5500	0 85				1
RT6	49OXYGEN PRESSURE	COMP	LD 1100	5500	0 85				1
RT6	53MIKE BUTTON	COMP	LD 1100	5500	0 85				1
RT6	54CANOPY LOCK	COMP	LD 1100	5500	0 85				1
RT6	55ARM SAFETY DISABLE	COMP	LD 1100	5500	0 85				1
RT6	56STICK GRIP TRIGGER	COMP	LD 1100	5500	0 85				1
RT6	57STICK GRIP TRIGGER	COMP	LD 1100	5500	0 85				1
RT6	58BOMB RELEASE	COMP	LD 1100	5500	0 85				1
RT6	60BEEP	COMP	LD 1100	5500	0 85				1
RT6	61BEEP	COMP	LD 1100	5500	0 85				1
RT6	62BEEP	COMP	LD 1100	5500	0 85				1
RT6	63BEEP	COMP	LD 1100	5500	0 85				1
TD1A	1NORM ACCEL	TD1D	LA10 5	5100	0 DC	5	5K	0 DC1	
TD1B	1PITCH SYNC	TD1D	LA10 20	5100	0 DC	5	5K	0 DC1	
TD1B	2SENSE	TD1D	LD01 20	28 0	0 1	28	0 600	P1	
TD1B	3ROLL SYNC	TD4C	LA10 20	5100	0 DC	5	5K	0 DC1	
TD1C	1POT RETURN GND	TD1D	PR						1
TD1C	2ANGLE OF ATTACK	TD1D	LA10 20	5100	0 DC	5	5K	0 DC1	
TD1D	1RELEASE VEL	COMP	LDW10	5SERIAL DIGITAL	SERIAL DIGITAL				1
TD1D	2TIME TO RELEASE	COMP	LA10 20	5100	0 DC				1
TD1D	3TRIGGER	COMP	LD01100	28 0	0 1				1
TD1D	4BOMB BUTTON	COMP	LD01100	28 0	0 1				1
TD1D	5SYS CONTROL	COMP	LDW02	20SERIAL DIGITAL	SERIAL DIGITAL				1
TD1D	6BOMB SELECT	COMP	LDW03	20SERIAL DIGITAL	SERIAL DIGITAL				1
TD1D	7PITCH	COMP	LA10 20	5100	0 DC				1
TD1D	8PITCH RATE	COMP	LA10 20	5100	0 DC				1
TD1D	9AZ RATE	COMP	LA10 20	5100	0 DC				1
TD1D	10ANGLE OF ATTACK	COMP	LA10 5	4100	0 DC				1
TD1D	11BALLISTIC COEFF	COMP	LDW07	5SERIAL DIGITAL	SERIAL DIGITAL				1
TD1D	12ELEV OFFSET	TD4C	LA10 20	5100	0 DC	5	5K	0 DC1	
TD1D	13LOS ANGLE	COMP	LA10 20	5100	0 DC				1
TD1D	14LOS ANGLE RATE	COMP	LA10 20	5100	0 DC				1
TD1D	15A/C VEL	COMP	LA10 5	5100	0 DC				1
TD1E	1+10VDC REF	COMP	TD1D	TD1D	TD1D	TD1D	TD1D	TD1D	1
TD1E	2+10VDC REF	COMP	TD1D	TD1D	TD1D	TD1D	TD1D	TD1D	1
TD1E	3+15VDC REF	COMP	TD1D	TD1D	TD1D	TD1D	TD1D	TD1D	1
TD1E	4+15VDC REF	COMP	TD1D	TD1D	TD1D	TD1D	TD1D	TD1D	1
TD1F	1515 PWR ON	TD4B	PR						1
TD1F	2115VAC PWR	TD4C	PR						1
TD1F	3JOYSTICK CONTROL	TD4A	LA10 20	5100	0 DC	5	5K	0 DC1	
TD1F	4MODE	TD1D	LDW03	20SERIAL DIGITAL	SERIAL DIGITAL				1
TD1F	5ELEV CAGE OFFSET	TD1D	LA10 20	5100	0 DC	5	5K	0 DC1	
TD2AA	3SCAN NO 1 HI	TD2D	PR						1
TD2AA18+12V	UNREG NO 1	TD2D	PR						1
TD2AA20+12V	UNREG NO 2	TD2D	PR						1
TD2AA22+12V	UNREG NO 1	TD2D	PR						1
TD2AA24+12V	UNREG NO 2	TD2D	PR						1
TD2AA26+15V	MISC	TD2D	PR						1
TD2AA30+8V	NO 1	TD2D	PR						1
TD2AA32+8V	NO 1 RMT HI	TD2D	PR						1
TD2AA34+8V	NO 2	TD2D	PR						1
TD2AA36+8V	NO 2 RMT HI	TD2D	PR						1

AFAL-TR-76-120

[illegible]

AFAL-TR-76-120

[illegible]



172

TD5A1712 POS COMB DISCR	COMP	LD01 20 28 0 0 1	1
TD5A174YDEFL RETURN	COMP		1
TD5A176115VAC PHASE A	TD5B	PR	1
TD5A177115VAC PHASE B	TD5B	PR	1
TD5A178115VAC PHASE C	TD5B	PR	1
TD6A1 BGND	PR5A	PR	1
TD6A2 RF IN/OUT	TD6C	HA CUAX	1
TD6A3 A+20VDC	TD6B	PR	1
TD6A3 OBLANKING OUTPUT	MS1A	AD CRITICAL DELAY	1
TD6A3 E-10VDC	TD6B	PR	1
TD6A3 FGND	PR5A	PR	1
TD6B1 1DECODE CONTROL	TD6A	LA05 5 12100 -3 DC 12 3K -3 DC1	1
TD6B1 2ENCODE CONTROL	TD6A	LA03 5 16200 0 DC 16 2K 0 DC1	1
TD6B1 55V RETURN	PR5A	PR	1
TD6B1 728VDC OUT	TD6A	PR	1
TD6B1 8GND	PR5A	PR	1
TD6B111STANDBY	TD6A	LD01 5 20 0 0 1 20 0 10K P1	1
TD6C1 RF IN/OUT	TD6A	HA CUAX	1
TD7A 1AGR BORESIGHT (GND)	TD7B	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7A 2BEACON TEST	TD7B	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7A 3AGR MODE	TD7D	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7A 4CDS AZ POSITION	TD7C	AA10900 5 5K 0 AC 5 1 0 AC1	1
TD7A 5SIN AZ POSITION	TD7C	AA10900 5 5K 0 AC 5 1 0 AC1	1
TD7A 6SCAN ANALOG (DEM0D)	TD7C	LA10 30 14100 0 DC 14 3K 0 DC1	1
TD7A 7SIMULATION COMMAND	TD7C	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7A 8CLIMB ANGLE SIMULATE	TD7C	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7A 9FAULT ISOLATION	TD7C	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7A 10PREMASTER TRIGGER	TD7C	MD	1
TD7A 11BIPOLAR VIDEO	TD7C	HA	1
TD7A 12SUMVIDEO	TD7C	HA	1
TD7A 13MASTER TRIGGER	TD7C	MD	1
TD7A 14REPEATER BIT	TD7C	LD 1 10 15 0 0 1 15 0 600 P1	1
TD7A 15AZ + EL GEN BIT	TD7C	LD 1 10 15 0 0 1 15 0 600 P1	1
TD7A 16POSITION ANALOG	TD7C	LA 4 5 3.6100 0 DC 3.6 4K 0 DC1	1
TD7A 17COMPUTER RCVR BIT	TD7C	LD 1 10 18 0 0 1 18 0 600 P1	1
TD7A 18AFC BIT	TD7C	LD 1 10 18 0 0 1 18 0 600 P1	1
TD7A 19AMIR BIT	TD7C	LD 1 10 18 0 0 1 18 0 600 P1	1
TD7A 20ANTIENNA SCAN BIT	TD7C	LD 1 10 18 0 0 1 18 0 600 P1	1
TD7A 21TEST PULSE BIT	TD7C	LD 1 10 18 0 0 1 18 0 600 P1	1
TD7A 22TURN RATE SAFE	TD7C	LD 1 10 28 0 0 1 28 0 600 P1	1
TD7A 23DIHEM	TD7C	AA	1
TD7A 24BEACON BIT	TD7C	LD 1 10 2 5K 0 1 2 0 200 P1	1
TD7A 25END OF SCAN	TD7C	MD	1
TD7A 26SERVO BIT	TD7C	LD 1 10 15 0 0 1 15 0 600 P1	1
TD7A 27OFF/LOAD	TD7F	LD 1 10 28 0 0 1 28 0 600 P1	1
TD7A 28SELECT VIDEO	TD7D	LD 1 10 28 0 0 1 28 0 600 P1	1
TD7A 29TEMPLATE VIDEO	TD7D	MD	1
TD7A 30CLIMB DIVE COMMAND	TD7D	LA10 10 4 0 0 DC 4 4K 0 DC1	1
TD7B 1OPERATE	TD7A	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7B 2TF MODE	TD7CTD7A	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7B 3LOAD	TD7C	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7B 4TA MODE	TD7C	LD 1 5 28 0 0 9 28 0 600 P1	1
TD7B 5CSIA MODE	TD7C	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7B 6CURSOR ENABLE OP	TD7C	LD 1 5 28 0 0 1 28 0 500 P1	1
TD7B 7CSGMP MODE	TD7C	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7B 8TF OPERATE	TD7E	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7B 9GMP/GMS MODE	TD7C	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7B 10MODE OVERRIDE	TD7C	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7B 11GMS MODE	TD7C	LD 1 5 28 0 0 1 28 0 600 P1	1
TD7B 12AGR MODE	TD7E	LD 1 5 28 0 0 1 28 0 600 P1	1

TD7B 13BEACON MODE	ID7C	LD 1 5 28 0 0 1 28 0 600 P1
TD7B 14AGR DISPLAY	ID7C	LD 1 5 28 0 0 1 28 0 600 P1
TD7B 15AGR (SLAVE) (GND)	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7B 16STANBY MODE	ID7F	LD 1 5 28 0 0 1 28 0 600 P1
TD7B 17CIRC POLARIZATION	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7B 18COMPUTER FAIL/SAFE	ID7C	LD 1 5 28 0 0 1 28 0 600 P1
TD7B 19FREQUENCY TUNING	ID7A	LA 4 5 3.6100 0 AC 3.6 4K 0 AC1
TD7B 20AZ BURESTIGHT RELAY	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7B 21MODE ERASE	ID7C	LD 1 5 28 0 0 1 28 0 600 P1
TD7B 22TILT CONTROL	ID7A	LA10 5 20100 0 AC 20 4K 0 AC1
TD7C 15, 10 RANGE	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 220, 40, 80 RANGE	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 320, 40, 80 BEACON RNG	ID7D	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 41INDICATOR BLANKING	ID7D	AD 1
TD7C 5LOAD	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 6BEACON MODE	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 7RECEIVER BLANKING	ID7A	MD 1
TD7C 85 RANGE	ID7D	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 910 RANGE	ID7D	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 1020 RANGE	ID7D	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 1140 RANGE	ID7D	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 1280 RANGE	ID7D	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 13GMS/LOAD	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 14MANUAL LOAD SELECT	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 15CURSOR SIN ANALOG	ID7D	LA10 25 4.5100 0 DC 4.5 5K 0 DC1
TD7C 161A	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 17CS1A	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 18CSGMP	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 19GMP/GMS	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 20GMS	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 21BEACON	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 22AGR	ID7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 23IF	ID7D	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 24FAIL	ID7D	LD 1 5 28 0 0 1 28 0 600 P1
TD7C 25PMI LIMITED	ID7D	MD 1
TD7C 26DUNK PULSE	ID7D	MD 1
TD7C 27VERTICAL SWEEP	ID7D	MD 1
TD7C 28HORIZONTAL SWEEP	ID7D	MD 1
TD7C 29CLAMP GATE	ID7D	MD 1
TD7C 30TV VIDEO	ID7D	MD 1
TD7C 31CURSOR GATE	ID7D	MD 1
TD7C 32UNBLANK GATE	ID7D	MD 1
TD7C 33ERASE PULSE	ID7D	MD 1
TD7C 34TV HORIZONTAL SYNC	ID7D	HE 1
TD7C 35CURSOR VIDEO	ID7D	HA 1
TD7C 36CLOCK PULSE	ID7E	HD 1
TD7C 37MAX RANGE GATE	ID7E	MD 1
TD7C 38FAIL OVERRIDE	ID7A	LD 1 10 28 0 0 1 28 0 600 P1
TD7C 39INTERROPI	ID7A	LD 1 10 28 0 0 1 28 0 600 P1
TD7C 40YAW RATE	ID7A	LA13 50 50100 0 AC 50 5K 0 AC1
TD7C 41RADAR ALTITUDE	ID7A	LA12 25 25100 0 DC 25 5K 0 DC1
TD7C 42VELOCITY	ID7A	LA12 25 18100 0 DC 18 4K 0 DC1
TD7C 43CLIMB ANGLE	ID7A	LA12 25 18100 0 DC 18 4K 0 DC1
TD7C 44COMPUTER UNBLANK	ID7A	MD 1
TD7C 45ANI/RCVR FAIL/SAFE	ID7F	LD 1 10 5 5K 0 1 5 0 500 P1
TD7C 46TEST PULSE FAIL/SAFE	ID7F	LD 1 10 5 5K 0 1 5 0 500 P1
TD7C 47COMPUTER FAIL/SAFE	ID7F	LD 1 10 5 5K 0 1 5 0 500 P1
TD7C 48XMR FAIL/SAFE	ID7F	LD 1 10 5 5K 0 1 5 0 500 P1
TD7C 49AIRPLANE FAIL/SAFE	ID7F	LD 1 10 5 5K 0 1 5 0 500 P1
TD7C 50BIT FAIL/SAFE	ID7F	LD 1 10 5 5K 0 1 5 0 500 P1



AFAL-TR-76-120

TD7C 51SWEEP GEN FAIL/SAFE	TD7F	LD 1 10 5 5K 0 1 5 0 500 P1
TD7C 53ADDRESS	CMP	LW 1 50SERIAL DIGITALSERIAL DIGITAL 1
TD7C 54DATA READY	CMP	MD 1
TD7C 55SET RANGE READ OUT	TD5A	LD 1 10 28 0 0 1 28 0 600 P1
TD7D 1STORAGE CONTROL	TD7C	LA 7 5 -20 0 0 DC -20 20K 0 DC1
TD7D 2TV SELECT GRD	TD7C	LD 1 5 28 0 0 1 28 0 600 P1
TD7D 3MANUAL GAIN	TD7A	LA10 5 18 0 0 DC 18 15K 0 DC1
TD7E 1MANUAL CURSOR	TD7B	LD 1 5 28 0 0 1 28 0 600 P1
TD7E 2MANUAL RANGE STROBE	TD7C	MD 1
TD7E 3200 FT LCEARANCE	TD7A	LD 1 5 28 0 0 1 28 0 600 P1
TD7E 4SET CLEARANCE	TD7A	LA12 5 25 0 0 DC 25 20K 0 DC1
TD7E 5CLIMB DIVE CMD DELAY	TD7A	LD 1 10 4 0 0 1 4 0 4K P1
TD7E 6NMI	TD7C	LD 1 5 5 5K 0 1 5 0 500 P1
TD7F 1FAIL/SAFE TO LAMP DRT	TD7C	LD 1 10 5 5K 0 1 5 0 500 P1
TD7F 2MODE OVERRIDE + 1A	TD7C	LD 1 5 5 5K 0 1 5 0 500 P1
TD7F 3LOAD	TD7C	LD 1 10 28 0 0 1 28 0 600 P1
TD7F 4MODE OVERRIDE + CSTA	TD7C	LD 1 10 28 0 0 1 28 0 600 P1
TD7F 5MODE OVERRIDE ANT/RCT	TD7C	LD 1 10 28 0 0 1 28 0 600 P1
TD7F 6TURN RATE SIMULATE	TD7C	LD 1 10 28 0 0 1 28 0 600 P1
TD7F 7FLIGHT CMD WARNING	TD5ANV4H	LD 1 10 .3 0 0 1 .3 0 300 P1
TD7F 8SCAN INTERRUPT	TD7A	LD 1 10 15 0 0 1 15 0 3K P1

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AFAL-TR-76-120

## 2. SYSTEM "B" LISTING

SYSB			CO3A			AA		
CM1B	1	46	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	2	47	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	3	48	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	4	49	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	5	50	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	6	51	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	7	62	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	8	63	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	9	115 VAC FUSED	CM1C	PK				1
CM1B	10	71	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	11	72	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	12	73	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	13	74	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	14	75	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	15	76	CM1C	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	16	9	CM1I	LD	1 5	6 0 0	1 6	0 600 P1
CM1B	17	10	CO3A	AA				1
CM1C	1	1	CM1F	LD	1 5	28 0 0	1 28	0 600 P1
CM1C	2	2	CM1F	LD	1 5	28 0 0	1 28	0 600 P1
CM1C	3	3	CM1F	LD	1 5	28 0 0	1 28	0 600 P1
CM1C	4	4	CM1F	HA				1
CM1C	5	7	CM1F	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	6	8	CM1G	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	7	10	CM1E	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	8	11	CM1H	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	9	12	CM1A	LD	1 5	0 0 0	1 100 10K	50 A1
CM1C	10	13	CM1A	LD	1 5	0 0 0	1 100 10K	50 A1
CM1C	11	26	CM1E	HA				1
CM1C	12	27	CM1E	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	13	28	CM1BCM10	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	14	29	CM1BCM10	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	15	30	CM1BCM10	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	16	31	CM1BCM10	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	17	32	CM1BCM10	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	18	33	CM1B	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	19	34	CM1B	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	20	35	CM1B	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	21	36	CM1B	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	22	37	CM1B	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	23	38	CM1BCM10	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	24	39	CM1B	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	25	40	CM1A	HA				1
CM1C	26	41	CM1A	HA				1
CM1C	27	42	CM1A	HA				1
CM1C	28	43	CM1A	HA				1
CM1C	29	44	CM1A	HA				1
CM1C	30	45	CM1B	AA				1
CM1C	31	52	CM1E	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	32	53	CM1E	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	33	54	CM1H	HA				1
CM1C	34	55	CM1H	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	35	56	CM1H	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	36	57	CM1H	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	37	58	CM1G	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	38	59	CM1G	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	39	60	CM1G	LD	1 5	6 0 0	1 6	0 600 P1
CM1C	40	61	CM1G	HA				1
CM1C	41	77	CM1A	LD	1 5	0 0 0	1 100 10K	40 A1
CM1C	42	78	CM1A	LD	1 5	0 0 0	1 100 10K	40 A1



CM1C 43-6 VDC POWER	CM1FCM1ICM1ECM1HPR		1
CM1C 43-6 VDC POWER	CM1G	PR	2
CM1C 446 VDC POWER	CM1FCM1ICM1ECM1HPR		1
CM1C 446 VDC POWER	CM1GCM1B	PR	2
CM1C 4535 VDC POWER	CM1ECM1FCM1GCM1HPR		1
CM1C 46115 VAC SWITCHED	CM1B	PR	1
CM1C 47SYSTEM GROUND	CM1B	PR	1
CM1D 1 3	CM1BCM1C	HA	1
CM1D 2 4	CM1ACM1B	LD 1 5 0 0 0 1 100 10K 40 A1	1
CM1D 3 5	CM1ACM1B	LD 1 5 0 0 0 1 100 10K 40 A1	1
CM1D 4 7	CM1CCM1I	LD 1 5 0 0 0 1 100 10K 40 A1	1
CM1D 5POWER GROUND	PR3A	PR	1
CM1E 1 14	CM1C	HA	1
CM1E 2 15	CM1C	HA	1
CM1E 3 16	CM1C	HA	1
CM1F 1 23	CM1C	HA	1
CM1F 2 24	CM1C	HA	1
CM1F 3 25	CM1C	HA	1
CM1G 1 20	CM1C	HA	1
CM1G 2 21	CM1C	HA	1
CM1G 3 22	CM1C	HA	1
CM1H 1 17	CM1C	HA	1
CM1H 2 18	CM1C	HA	1
CM1H 3 19	CM1C	HA	1
CM1I 1 6	CM1C	HA	1
CM1I 2 9	CM1C	HA	1
CM1I 3 1	CM1D	LD 1 5 8 0 0 1 8 0 2K P1	1
CM1I 4 2	CM1D	LD 1 5 8 0 0 1 8 0 2K P1	1
CM1J 1KF 1N	CM1E	HA	1
CM1K 1KF 1N	CM1F	HA	1
CM1L 1KF 1N	CM1G	HA	1
CM1M 1KF 1N	CM1H	HA	1
CM1N 1KF 1N	CM1D	HA	1
CM1O 1 68	CM1C	LD 1 5 0 0 0 1 100 10K 50 A1	1
CM1O 2 69	CM1C	LD 1 5 0 0 0 1 100 10K 50 A1	1
CM1O 3 70	CM1C	LD 1 5 0 0 0 1 100 10K 50 A1	1
CM1O 4 8	CM1B	LD 1 5 6 0 0 1 6 0 600 P1	1
CM3A 1OVERLOAD 1+2	CM3B	LD 1 5 0 0 0 1 100 10K 40 A1	1
CM3A 2OAM INDICATOR 1+2	CM3B	LD 1 5 0 0 0 1 100 10K 40 A1	1
CM3A 328 VDC DELAYED 1	CM3B	LD 1 5 28 0 0 1 28 0 150 P1	1
CM3A 4HF DETECTOR 1	CM3B	LD 1 5 0 0 0 1 100 10K 40 A1	1
CM3A 5RF DETECTOR 2	CM3B	LD 1 5 0 0 0 1 100 10K 40 A1	1
CM3A 628 VDC DELAYED 2	CM3B	LD 1 5 28 0 0 1 0 0 150 P1	1
CM3B 1STANDBY CONTROL 1	CM3A	LD 1 5 0 0 0 1 100 10K 50 A1	1
CM3B 2TRANSMIT CONTROL 1	CM3ACM1B	LD 1 5 28 0 0 1 28 0 150 P1	1
CM3B 3TRANSMIT CONTROL 2	CM3ACM1B	LD 1 5 28 0 0 1 28 0 150 P1	1
CM3B 4STANDBY CONTROL 2	CM3A	LD 1 5 0 0 0 1 100 10K 50 A1	1
CO1A 1ADF AUDIO ERROR	NV3A	AA	1
CO1A 2AUDIO OUT	CO1B	AA	1
CO1B 1ADF ENABLE	NV3A	LD 1 5 0 0 0 1 100 10K 50 A	1
CO1B 2AUDIO OUT	CO3A	AA	1
CO1B 3SENSITIVITY	CO1A	LA12 5 4 0 0 0 DC 4 5K 0 DC	1
CO1B 4ADF TIME CONSTANT	CO1A	LD 1 5 0 0 0 0 100 10K 50 A	1
CO1B 5POWER ON	CO1A	LD 1 5 0 0 0 0 100 10K 50 A	1
CO1B 6GUARD CHANNEL ON	CO1A	LD 1 5 0 0 0 0 100 10K 50 A	1
CO1B 7CHANNEL SELECT SW	CO1A	LD 1 5 28 0 0 1 28 0 600 P	1
CO1B 8CHANNEL SELECT 1	CO1A	LD 1 5 28 0 0 1 28 0 600 P	1
CO1B 9CHANNEL SELECT 2	CO1A	LD 1 5 28 0 0 1 28 0 600 P	1
CO1B 10CHANNEL SELECT 3	CO1A	LD 1 5 28 0 0 1 28 0 600 P	1
CO1B 11CHANNEL SELECT 4	CO1A	LD 1 5 28 0 0 1 28 0 600 P	1

CU1B 12ADF ENABLE	CU1B	LD 1 5 0 0 0 1 100 10K 50 A
CU1C 1GUARD CHANNEL ON	CU1A	LD 1 5 0 0 0 1 100 10K 50 A
CU2A 1RT + GUARD AUDIO	CU2B	AA
CU2A 2GUARD AUDIO	CU3A	AA
CU2A 3R-1 RF (RCVR/XM11)	NV3A	HA
CU2A 4ADF AUDIO ERROR	NV3A	AA
CU2B 1POWER ON	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 2GUARD ON	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 3FREQ CONT .05-D	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 4FREQ CONT .1-A	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 5FREQ CONT .1-B	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 6FREQ CONT .1-C	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 7FREQ CONT .1-D	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 8FREQ CONT .1-E	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 9FREQ CONT 1-A	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 10FREQ CONT 1-B	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 11FREQ CONT 1-C	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 12FREQ CONT 1-D	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 13FREQ CONT 1-E	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 14FREQ CONT 10-A	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 15FREQ CONT 10-B	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 16FREQ CONT 10-C	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 17FREQ CONT 10-D	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 18FREQ CONT 10-E	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 19FREQ CONT 200-A	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 20FREQ CONT 300-B	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 21SQUELCH DISABLE	CU2A	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 22R-1 + GUARD AUDIO	CU3A	AA
CU2B 23GUARD AUDIO	CU3A	AA
CU2B 24RFEC1 CONTROL 1	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 25RFEC1 CONTROL 2	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 26RFEC1 CONTROL 3	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 27RFEC1 CONTROL 4	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 28RFEC1 CONTROL 5	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 29RFEC1 CONTROL 6	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 30RFEC1 CONTROL 7	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 31RFEC1 CONTROL 8	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 32RFEC1 CONTROL 9	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 33RFEC1 CONTROL 10	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 34RFEC1 CONTROL 11	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 35RFEC1 CONTROL 12	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 36RFEC1 CONTROL 13	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 37RFEC1 CONTROL 14	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 38RFEC1 CONTROL 15	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 39RFEC1 CONTROL 16	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 40RFEC1 CONTROL 17	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 41RFEC1 CONTROL 18	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 42RFEC1 CONTROL 19	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 43RFEC1 CONTROL 20	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 44RFEC1 CONTROL 21	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 45RFEC1 CONTROL 22	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 46RFEC1 CONTROL 23	CU2D	LD 1 5 0 0 0 1 100 10K 50 A1
CU2B 47RFEC1 CONTROL 24	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 48RFEC1 CONTROL 25	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 49RFEC1 CONTROL 26	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 50RFEC1 CONTROL 27	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 51RFEC1 CONTROL 28	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 52RFEC1 CONTROL 29	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 53RFEC1 CONTROL 30	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 54RFEC1 CONTROL 31	CU2D	LD 1 5 28 0 0 1 28 0 600 P1

CU2B 55KFC1 CONTROL 32	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 56KFC1 CONTROL 33	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 57KFC1 CONTROL 34	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 58KFC1 CONTROL 35	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 59KFC1 CONTROL 36	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 60KFC1 CONTROL 37	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 61KFC1 CONTROL 38	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 62KFC1 CONTROL 39	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 63KFC1 CONTROL 40	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 64KFC1 CONTROL 41	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 65KFC1 CONTROL 42	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 66KFC1 CONTROL 43	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 67KFC1 CONTROL 44	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 68KFC1 CONTROL 45	CU2D	LD 1 5 28 0 0 1 28 0 600 P1
CU2C 10HF RF (RCVR/XMIT)	CU6G	HA 1
CU3A 1MICROPHONE INPUT	CU5A	AA 1
CU3A 2VHF PRESS-TO-TALK	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU3A 3NARROW/WIDE BAND CONCO	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU3A 4MIKE INPUT	CU2A	AA 1
CU3A 5TRANSMIT KEY	CU2A	LD 1 10 0 0 0 1 100 10K 50 A1
CU3A 6GUARD AUDIO	CU2B	AA 1
CU3A 7ADF ENABLE	CU1B	LD 1 5 0 0 0 1 100 10K 50 A1
CU4A1 FHEADSET AUDIO OUT	CU3A	AA0418K 1
CU4A2 BCARBON MIKE OUT	CU3A	AA0418K 1
CU4A2 ESHIELDS	PR3A	PR 1
CU4A2 KPRIMARY GND	PR3A	PR 1
CU4A2 KSYSTEM GND	CU4B	PR 1
CU4A2 KSYSTEM GND	CU4B	PR 1
CU4A2 KUNDEBAND AUDIO	NV3A	MA 1
CU4B1 B+28VDC	CU4A	PR 1
CU4B1 CEAT TIME DELAY	CU4A	LD01 5 0 0 0 1 100 10K 1 A1
CU4B1 KSYSTEM GND	CU4A	PR 1
CU4B1 KPAANEL LIGHT GND	PR3A	PR 1
CU4B1 GP7C CONTROL	CU4A	LD01 5 28 0 0 0 28 0 600 P1
CU4B1 KZEROLZE	CU4A	LD01 20 28 0 0 1 28 0 4 P1
CU5A 1AUDIO OUT TO CONTROL	CU5C	AA 1
CU5A 2WIDE BAND CODED AUD	CU3A	AA 1
CU5B 1RF IN/OUT	CU5D	HA 1
CU5C 10.05 MHZ SELECT A	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 20.05 MHZ SELECT B	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 30.05 MHZ SELECT C	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 40.05 MHZ SELECT D	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 50.05 MHZ SELECT E	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 6MHZ SELECT A	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 7MHZ SELECT B	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 8MHZ SELECT C	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 9MHZ SELECT D	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 10MHZ SELECT E	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 11TONE SQUELCH	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 12SQUELCH	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 13BAND A 30-52 MHZ	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 14BAND B 53-76 MHZ	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 15AUDIO OUT TO AIC-26	CU3A	AA 1
CU5D 1RF IN/OUT	CU5A	HA 1
CU6A1 1AC RETURN	PR3A	PR 1
CU6A1 3SYSTEM GND	PR3A	PR 1
CU6A1 7115VAC SWITCHED	CU6FC06G	PR 1
CU6A1 9AUDIO OUT	CU3A	AA0418K 1
CU6A110AUDIO COMMON	CU3A	1
CU6A111SUPPRESSION OUT	MS1A	MD 20US 1200PRF 1



CU6A134REPLY LIGHT ENABLE	CU6B	LD01 20 28250 0 1 28 0 250 P1
CU6A145MODE 4 CHALLENGE	CU6F	HA VIDEO 1
CU6A146MODE 4 ENABLE	CU6F	HD TRIGGER 1
CU6A15328VDC CAUTION LT	CU6F	LD01 5 28 0 0 1 28 0 25 P1
CU6A5 RF IN/OUT	CU6C	HA COAX 1
CU6B1 1REFUEL HOLD	CU6F	LD01 20 0 0 0 1 100 10K 100 A1
CU6B1 2IDENT CONT	CU6A	LD01 20 0 0 0 1 100 10K 40 A1
CU6B1 3TEST BIT CONT	CU6F	LD01 20 0 0 0 1 100 10K 5 A1
CU6B1 4MODE C ENABLE	CU6A	LD01 5 0 0 0 1 100 10K 2 A1
CU6B1 5EMERGENCY CONT	CU6A	LD01 20 0 0 0 1 100 10K 2 A1
CU6B1 6MODE 3/A ENABLE	CU6A	LD01 5 0 0 0 1 100 10K 2 A1
CU6B1 8STANDBY CONTROL	CU6A	LD01 5 0 0 0 1 100 10K 2 A1
CU6B1 9MODE 2 ENABLE	CU6A	LD01 5 0 0 0 1 100 10K 2 A1
CU6B110SENSITIVITY	CU6A	LD01 5 0 0 0 1 100 10K 40 A1
CU6B111POWER RELAY CONT	CU6A	LD01 5 0 0 0 1 100 10K 40 A1
CU6B115MODE 3/A C1 CONT	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B116MODE 3/A C2 CONT	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B117MODE 3/A C4 CONT	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B118MODE 3/A D1	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B119MODE 3/A D2	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B120MODE 3/A D4	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B122ZEROIZE RETURN	CU6F	LD01 5 0 0 0 1 100 10K 40 A1
CU6B123L-BAND DISABLE	CU6F	LD01 5 0 0 0 1 100 10K 15 A1
CU6B124TEST MODE CONT	CU6A	LD01 20 0 0 0 1 100 10K 2 A1
CU6B125MODE 1 ENABLE	CU6A	LD01 5 0 0 0 1 100 10K 2 A1
CU6B126MODE 1 A1	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B127MODE 1 A2	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B128MODE 1 A4	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B129MODE 1 B1	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B130MODE 1 B2	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B131SYSTEM GND	PR3A	PR 1
CU6B132MODE 3/A A1	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B133MODE 3/A A2	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B134GROUND	PR3A	PR 1
CU6B135MODE 3/A A4	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B136MODE 3/A B1	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B137MODE 3/A B2	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B138MODE 3/A B4	CU6A	LD01 1 0 0 0 1 100 10K 2 A1
CU6B140MODE 1 TEST	CU6C	LD01 5 0 0 0 1 100 10K 40 A1
CU6B141MODE 2 TEST	CU6C	LD01 5 0 0 0 1 100 10K 40 A1
CU6B143MODE 3/A TEST	CU6C	LD01 5 0 0 0 1 100 10K 40 A1
CU6B144MODE C TEST	CU6C	LD01 5 0 0 0 1 100 10K 40 A1
CU6B145MONITOR CONTROL	CU6C	LD01 5 0 0 0 1 100 10K 40 A1
CU6B148CODE B CONT	CU6F	LD01 5 0 0 0 1 100 10K 5 A1
CU6B153GROUND	PR3A	PR 1
CU6B155AUDIO ENABLE	CU6A	LD01 5 0 0 0 1 100 10K 2 A1
CU6C1 2SYSTEM GROUND	PR3A	PR 1
CU6C1 8TEST LIGHT	CU6E	LD01 5 28 0 0 1 28 0 600 P1
CU6C2 RF IN/OUT	CU6A	HA COAX 1
CU6C3 RF IN/OUT	CU6G	HA COAX 1
CU6D 1ALTITUDE (SYNCHRO)	FC4ACU6E	LS13 2011.8 50 11.8 200 1
CU6D 2MACH NUMBER	FC4A	LS13 2011.8600 11.8 20 1
CU6D 3ALTITUDE (ANALOG LO)1D1A	LA12 20 4 0 0 DC 4 4K 0 DC1	
CU6D 4ALTITUDE (ANALOG HI)1D5A	LA12 2030.5 0 0 DC30.5 6K 0 DC1	
CU6D 5ALTITUDE (MODE C,A1)CU6A	LD 1 5 28 0 0 1 28 0 600 P1	
CU6D 6ALTITUDE (MODE C,A2)CU6A	LD 1 5 28 0 0 1 28 0 600 P1	
CU6D 7ALTITUDE (MODE C,A4)CU6A	LD 1 5 28 0 0 1 28 0 600 P1	
CU6D 8ALTITUDE (MODE C,B1)CU6A	LD 1 5 28 0 0 1 28 0 600 P1	
CU6D 9ALTITUDE (MODE C,B2)CU6A	LD 1 5 28 0 0 1 28 0 600 P1	
CU6D 10ALTITUDE (MODE C,B4)CU6A	LD 1 5 28 0 0 1 28 0 600 P1	

CU6D 11ALTITUDE (MODE C,C1)CU6A	LD 1 5 28 0 0 1 28 0 600 P1
CU6D 12ALTITUDE (MODE C,C2)CU6A	LD 1 5 28 0 0 1 28 0 600 P1
CU6D 13ALTITUDE (MODE C,C4)CU6A	LD 1 5 28 0 0 1 28 0 600 P1
CU6D 14ALTITUDE (MODE C,D2)CU6A	LD 1 5 28 0 0 1 28 0 600 P1
CU6D 15ALTITUDE (MODE C,D4)CU6A	LD 1 5 28 0 0 1 28 0 600 P1
CU6D 16ADC FAIL CU6AID1AMS3A	LD 1 5 28 0 0 1 28 0 600 P1
CU6D 17ADC RELIABILITY CU6EMS4A	LD 1 5 28 0 0 1 28 0 600 P1
CU6D 18TRUE AIRSPEED (SYN) MS4A	LS13 1011.8 50 11.8 200 1
CU6D 19TRUE AIRSPEED ID1A	LA12 5 4 0 0 DC 4 4K 0 DC1
CU6D 20MACH NUMBER ID1A	LA12 5 4 0 0 DC 4 4K 0 DC1
CU6D 21INDICATED AIRSPEED ID3B	LA12 5 15 0 0 DC 15 4K 0 DC1
CU6E1 5COMMON GROUND PR3A	PR 1
CU6E114CASE GROUND PR3A	PR 1
CU6E12VIBRATOR GROUND PR3A	PR 1
CU6F1 1MODE 4 REPLY TRIGGERCU6A	HD COAX 1
CU6F1 4MODE 4 DISPARITY CU6A	HD TRIGGER COAX 1
CU6F116115VAC RETURN PR3A	PR 1
CU6F117ZEROIZE CODE IND CU6A	LD01 5 28 0 0 1 28 0 600 P1
CU6F13028VDC CAUTION LT MS3A	LD01 5 28 0 0 1 28 0 600 P1
CU6F134SYSTEM GROUND PR3A	PR 1
CU6G1 UHF RF IN/OUT NV3A	HA 1
CU6G2 RF IN/OUT CU6H	HA COAX 1
CU6G3 IFF RF IN/OUT CU6C	HA COAX 1
CU6H1 RF IN/OUT CU6G	HA COAX 1
EL1A 1RAIN REPEL DELAY RT EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 2RAIN REMOVE HOT AARNEL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL1A 3LOX CONVERTER EL1A	LA 7 5 20 0 0 AC 20 2K 0 AC1
EL1A 4SOIL TEMP SENSOR EL1A	LA 8 512.6 0 0 DC12.6 2K 0 DC1
EL1A 5SOIL TEMP CONTROL EL1A	LA 8 5 12 0 0 DC 12 2K 0 DC1
EL1A 6ANTICIPATOR EL2C	LA 8 512.6 0 0 DC12.6 2K 0 DC1
EL1A 7COCKPIL TEMP SENSOR EL2C	LA 8 512.6 0 0 DC12.6 2K 0 DC1
EL1A 8RH GEAR UNLOCK SW EL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL1A 9EPP DOOR SWITCH EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL1A 10TUT TEST SWITCH EL2A	LD 1 5 5500 0 85 5 0 500 P1
EL1A 11ROSE GEAR DOWN-LKD EL2BEL4AEL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL1A 12FLASHER EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL1A 13ROSE GEAR UNLOCK SW EL3AEL1A	LD 1 5 0 0 0 1 100 10K 50 A1
EL1A 14NG STEERING CUTOFF 1EL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL1A 15NG STEERING CUTOFF 2EL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL1A 16FEEDBACK TRANSDUCER EL1A	LA 9 5 49 0 0 AC 49 10K 0 AC1
EL1A 17NG STEERING AMP EL1A	LA 9 5 15 0 0 DC 15 5K 0 AC1
EL1A 18EXT PAR REMOTE CONT EL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL1A 19EPP DOOR SWITCH S238EL4REL4B	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 20FIRE DETECTION CONT1EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL1A 21FIRE DETECTION CONT2EL2A	LD 1 5 5 0 0 1 5 0 500 P1
EL1A 22INTERCOM STATION EL1A	LD 1 5 0 0 0 1 100 10K 50 A1
EL1A 23RT-7630/APN-154 RT EL2C	LD 1 5 12 0 0 1 12 0 600 P1
EL1A 24GUN CONTROL UNIT 1 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 25GUN CONTROL UNIT 2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 26GUN CONTROL UNIT 2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 27LAST ROUND SWITCH 1 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 28LAST ROUND SWITCH 2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 29GUN CONTROL BOX 1 EL1A	LD 1 5 5500 0 85 5 0 500 P1
EL1A 30GUN CONTROL BOX 2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 31LAST ROUND BYPASS 1 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 32LAST ROUND BYPASS 2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 33GUN GAS PURGE VALVE EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 34GAS PURGE DOOR INTLKEL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 35DELAY ASSY A272-P2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 36MAGNETIC PICKUP EL1A	LA 8 10 70 0 0 AC 70 20K 0 AC1

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3 OF 4  
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EL1A 37SAFE (GUN FIRE HOLD)CM2A	LD 1 5 28 0 0 1 28 0 600 P1
EL1A 38SAFE (NOSE GEAR DNLKCM2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 1LOA LOW LEVEL SIGNALCEL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 2TOT HOT WARNING EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 3OIL QUANTITY WARN EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 4WHL/FLAP WRN LTS EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 5ANGLE-OF-ATTACK XDUCEL2A	LA13 5 4 0 0 DC 4 5K 0 DC1
EL2A 6ANGLE-OF-ATTACK IND1EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 7ANGLE-OF-ATTACK IND2EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 8ANGLE-OF-ATTACK IND3EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 9ANGLE-OF-ATTACK IND4EL1A	LD 1 5 0 0 0 1 100 10K 200 A1
EL2A 10INT-EXT LT DIM PNL 1EL3B	LD 1 5 5500 0 85 5 0 500 P1
EL2A 11INT-EXT LT DIM PNL 2EL3A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 12INT-EXT LT DIM PNL 3EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 13INT-EXT LT DIM PNL 4EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 14INT-EXT LT DIM PNL 5EL3A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 15INT-EXT LT DIM PNL 6EL3B	LD 1 5 5500 0 85 5 0 500 P1
EL2A 16INT-EXT LT DIM PNL 7EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 17INT-EXT LT DIM PNL 8EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 18INT-EXT LT DIM PNL 9EL3B	LD 1 5 5500 0 85 5 0 500 P1
EL2A 19INT-EXT LT DIM PNL10EL3A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 20DIMMING CONTROL EL2C	LD 1 5 28 0 0 1 28 0 150 P1
EL2A 21MASTER ARM SWITCH EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 15UIT FLOW CONTROL EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 25UIT TEMP SELECT EL1A	LA 8 512.6 0 0 DC12.6 2K 0 DC1
EL2B 3BATTERY SWITCH EL2B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 4CRANK SWITCH EL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 5STARTER ABORT SW EL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 6AIR IGNITE SWITCH EL5A	LD 1 5 36 0 0 1 36 0 600 P1
EL2B 7ANTI-ICE SW (ENGINE)EL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 8GEAR HANDLE SWITCH EL4AEL4A	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 9DN-LRD EMER RELEASE EL2B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 10GEAR HANDLE UP EL4A	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 11GEAR HANDLE DOWN EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 12GEAR HANDLE SWITCH EL4DFC4AEL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 13ANTI-SKID SWITCH S5 EL1AEL2B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 14STBY ATT ERECT OFF EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 15STBY ATT ERECT ON EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 16MASTER GENERATOR SW1EL4B	LD 1 5 0 0 0 1 100 10K 200 A1
EL2B 17MASTER GENERATOR SW2EL4B	LD 1 5 0 0 0 1 100 10K 200 A1
EL2B 18MASTER GENERATOR SW3EL4B	LD 1 5 0 0 0 1 100 10K 200 A1
EL2B 19BATTERY SWITCH EL4A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 20EMERGENCY GEN SW 1 EL4A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 21EMERGENCY GEN SW 2 EL4A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 22EMERGENCY GEN SW 3 EL4B	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 23EXT LIGHTS SWITCH 1 EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 24EXT LIGHTS SWITCH 2 EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 25LAND/TAXI LT SW S248EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 26LAND/TAXI LT RY K304EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 27PRESS-TO-TALK SWITCHEL2BEL2C	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 28INTERCOM SET CONT 1 EL4A	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 29INTERCOM SET CONT 2 EL2B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 30INTERCOM SET CONT 3 EL2B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 31ANTI-ICE SWITCH EL1A	LD 5 1 5500 0 85 5 0 500 P1
EL2B 32AZIMUTH SLEW TD1A	LA10 25 8 0 0 DC 8 1K 0 DC1
EL2B 33ELEVATION SLEW TD1A	LA10 25 8 0 0 DC 8 1K 0 DC1
EL2B 34SALVO JETTISON NO.1 TD4A	LD 1 20 28 0 0 1 28 0 600 P1
EL2B 35SALVO JETTISON NO.2 TD4A	LD 1 20 28 0 0 1 28 0 600 P1
EL2B 36SALVO JETTISON CM2B	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 1WINGFOLD SWITCH EL2CEL2C	LD 1 5 28 0 0 1 28 0 150 P1

EL2C 2SEAT ADJUSTMENT	EL2C	LD 1 5	5500	0 85	5	0 500	P1
EL2C 3CANOPY LOCK	EL2C	LD 1 5	28 0	0 1	28	0 600	P1
EL2C 4RAIN REFLENT SW	EL1A	LD 1 5	28 0	0 1	28	0 150	P1
EL2C 5LOX LOW LEVEL WARN	EL2C	LD 1 5	28 0	0 1	28	0 600	P1
EL2C 6COCKPIT AIR TEMP	EL1A	LA 8 5	12 0	0 DC	12 2K	0 DC1	
EL2C 7ARRESTING GR HANDLE	EL2CEL4D	LD 1 5	28 0	0 1	28	0 150	P1
EL2C 8ANTI-COLLISION LT S1EL2A		LD 1 5	5500	0 85	5	0 500	P1
EL2C 9ANTI-COLLISION LT S2EL2A		LD 1 5	5500	0 85	5	0 500	P1
EL2C 10FORMATION LIGHT SW 1EL2A		LD 1 5	5500	0 85	5	0 500	P1
EL2C 11FORMATION LIGHT SW 2EL2A		LD 1 5	5500	0 85	5	0 500	P1
EL2C 12FORMATION LIGHT SW 3EL2A		LD 1 5	5500	0 85	5	0 500	P1
EL2C 13FORMATION LIGHT SW 4EL2A		LD 1 5	5500	0 85	5	0 500	P1
EL2C 14TAIL POSITION LT SW1EL2A		LD 1 5	5500	0 85	5	0 500	P1
EL2C 15TAIL POSITION LT SW2EL2A		LD 1 5	5500	0 85	5	0 500	P1
EL2C 16TAIL POSITION LT SW3EL4A		LD 1 5	28 0	0 1	28	0 600	P1
EL2C 17WING POSITION LT SW1EL2A		LD 1 5	5500	0 85	5	0 500	P1
EL2C 18WING POSITION LT SW2EL2A		LD 1 5	5500	0 85	5	0 500	P1
EL2C 19DOWNFLT INST LTS CONTEL2A		LA 7 5	3 0	0 DC	3 1K	0 DC1	
EL2C 20FLI INST LTS CONTEL2A		LA 7 5	3 0	0 DC	3 1K	0 DC1	
EL2C 21CONSOLE LTS CONTROL EL2A		LA 7 5	3 0	0 DC	3 1K	0 DC1	
EL2C 22WHITE FLOOD LTS CONTEL2A		LA 7 5	3 0	0 DC	3 1K	0 DC1	
EL2C 23AUX FLOOD LTS CONT BEL2C		LD 1 5	28 0	0 1	28	0 150	P1
EL2C 24AUX FLOOD LTS CONT DEL2A		LD 1 5	28 0	0 1	28	0 150	P1
EL2C 25INTR-EXT LTS CONT 1 EL2C		LD 1 5	28 0	0 1	28	0 150	P1
EL2C 26IND LTS TEST SW 1 EL2C		LD 1 5	28 0	0 1	28	0 150	P1
EL2C 27IND LTS TEST SW 2 EL2C		LD 1 5	28 0	0 1	28	0 600	P1
EL2C 28IND LTS TEST SW 3 EL4A		LD 1 5	28 0	0 1	28	0 600	P1
EL2C 29IND LTS TEST SW 4 EL2A		LD 1 5	0 0	0 1	100 10K	50 A1	
EL2C 30IND LTS TEST SW 5 EL2A		LD 1 5	0 0	0 1	100 10K	50 A1	
EL2C 31INTR-EXT LTS CONT 2 EL2A		LD 1 5	28 0	0 1	28	0 150	P1
EL2C 32INTR-EXT LTS CONT 3 EL2A		LA 7 5	3 0	0 DC	3 1K	0 DC1	
EL2C 33INTR-EXT LTS CONT 4 EL2A		LA 7 5	3 0	0 DC	3 1K	0 DC1	
EL2C 34INTR-EXT LTS CONT 5 EL2A		LD 1 5	28 0	0 1	28	0 150	P1
EL2C 35C-7940/ARC CONTROL 1EL4B		LD 1 5	28 0	0 1	28	0 600	P1
EL2C 36C-7940/ARC CONTROL 2EL4B		LD 1 5	28 0	0 1	28	0 600	P1
EL2C 37RE978/ARC RY ASSY 1 EL4B		LD 1 5	28 0	0 1	28	0 600	P1
EL2C 38RE978/ARC RY ASSY 2 EL4B		LD 1 5	28 0	0 1	28	0 600	P1
EL2C 39RE978/ARC RY ASSY 3 EL4B		LD 1 5	0 0	0 1	100 10K	50 A1	
EL2C 40C-4419/APN-154 CONT1EL1A		LD 1 5	28 0	0 1	28	0 600	P1
EL2C 41C-4419/APN-154 CONT2EL1A		LD 1 5	12 0	0 1	12	0 600	P1
EL2C 42C-4419/APN-154 CONT3EL1A		LD 1 5	12 0	0 1	12	0 600	P1
EL2C 43C-4419/APN-154 CONT4EL1A		LD 1 5	12 0	0 1	12	0 600	P1
EL2C 44ANGLE OF ATTACK	TD1A	LA12 50	4 0	0 DC	4 1K	0 DC1	
EL2C 45ANGLE OF ATTACK	TD3B	LA12 25	14 0	0 DC	14 5K	0 DC1	
EL3C 1LEADING EDGE DOWN SWEL4B		LD 1 5	0 0	0 1	100 10K	50 A1	
EL4A 1WEIGHT OFF GEAR	EL1A	LD 1 5	28 0	0 1	28	0 600	P1
EL4A 2WEIGHT-ON-GEAR	EL4A	LD 1 5	28 0	0 1	28	0 600	P1
EL4A 3TEMP LIMITER RELAY	EL4AEL5A	LD 1 5	28 0	0 1	28	0 600	P1
EL4A 4WEIGHT OFF GEAR RYK6EL5A		LD 1 5	26 0	0 1	26	0 150	P1
EL4A 5SEC DC BUS RY K12	EL4BEL2B	LD 1 5	28 0	0 1	28	0 150	P1
EL4A 6LANDING GEAR NO.1 RYEL2CEL4AEL4A		LD 1 5	28 0	0 1	28	0 600	P1
EL4A 7WT-ON-GEAR RY K11	EL4D	LD 1 5	28 0	0 1	28	0 600	P1
EL4A 8LANDING GEAR RELAY 1EL2B		LD 1 5	28 0	0 1	28	0 600	P1
EL4A 9LANDING GEAR RELAY 2EL2B		LD 1 5	28 0	0 1	28	0 600	P1
EL4A 10DECK COMPRESS RELAY	EL2BEL4B	LD 1 5	0 0	0 1	100 10K	50 A1	
EL4A 11WEIGHT OFF GEAR RYK8EL1A		LD 1 5	28 0	0 1	28	0 600	P1
EL4A 12NG STEERING PC RY	EL1A	LD 1 5	28 0	0 1	28	0 150	P1
EL4B 1DIFF PRESSURE SWITCHEL4B		LD 1 5	28 0	0 1	28	0 600	P1
EL4B 2CUMP DOOR SWITCH	EL4B	LD 1 5	0 0	0 1	100 10K	40 A1	
EL4B 3GEAR NOT DOWN-LKD	EL4A	LD 1 5	28 0	0 1	28	0 600	P1



EL4B 4WHL/FLAP WARNING RY EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 5WHL/FLAP WARNING RY EL1A	LD 1 5 0 0 0 1 100 10K 50 A1
EL4B 6WHLGHI OFF GEAR HI EL4H	LD 1 5 0 0 0 1 100 10K 50 A1
EL4B 7ANTIISKID ADVISORY EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 8ANTIISKID CONTROL EL4D	LA12 50 8 0 0 DC 8 1K 0 DC1
EL4B 9ANTIISKID SHUTOFF EL4D	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 10DISP GYRO MOLL EL2A	LS13 511.8 50 11.8 200 1
EL4B 11DISP GYRO PITCH EL2A	LS13 511.8 50 11.8 200 1
EL4B 12DISP GYRO EL2A	LD 1 5 0 0 0 1 100 10K 50 A1
EL4B 13GENERATOR CONT PNL 1EL2B	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 14GENERATOR CONT PNL 2EL4F	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 15GENERATOR CONT PNL 3EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 16GENERATOR CONT PNL 4EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 17EMER PWK CONT RY K1 EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 18MASTER GEN SW (PCF) EL4B	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 19PRI AC BUS NO.1 RY EL4B	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 20EPP RETRACT TEST SW1EL4BEL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 21EPP EXTENSION RY K13EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 22EXT LIGHTS CUNT K2-1EL2C	LD 1 5 5500 0 85 5 0 500 P1
EL4B 23EXT LIGHTS CUNT K2-2EL2C	LD 1 5 5500 0 85 5 0 500 P1
EL4B 24EXT LIGHTS CUNT K2-3EL2C	LD 1 5 5500 0 85 5 0 500 P1
EL4B 25LANDING GEAR NO.2 RYEL2B	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 26CAMERA CONTROL 1 EL5A	LA 8 10 15 0 5 AC 15 500 5 AC1
EL4B 27CAMERA CONTROL 2 EL5A	LA 8 10 15 0 5 AC 15 500 5 AC1
EL4B 28CAMERA CONTROL 3 EL5A	LA 8 1044.5 011.5 AC44.5 50011.5 AC1
EL4B 29CAMERA CONTROL 4 EL5A	LA 8 1024.5 014.5 AC24.5 50014.5 AC1
EL4C 1PC1 HYD PRESSURE SW EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 2PC2 HYD PRESSURE SW EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 3PC3 HYD PRESSURE SW EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 4PC1 SYNCHRO AMIR EL2C	LS13 511.8600 11.8 20 1
EL4C 5EMER ACCUM SHUTOFF EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 6EIGHT-ON-GEAR SW EL4CEL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 7EMER ACCUM TEST SW EL5AEL1AEL1AEL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL4C 7EMER ACCUM TEST SW EL1AEL1AEL1AEL1A	LD 1 5 28 0 0 1 28 0 150 P2
EL4C 7EMER ACCUM TEST SW EL1A	LD 1 5 28 0 0 1 28 0 150 P3
EL4C 8LEFT GEAR DOWN-LKD EL2HEL4B	LD 1 5 0 0 0 1 100 10K 40 A1
EL4C 9LEFT GEAR UPLOCK SW EL4A	LD 1 5 0 0 0 1 100 10K 50 A1
EL4C 10LEFT WHL SPD SENSOR EL4B	LA11 50 10 0 4 AC 10 SK 4 AC1
EL4C 11LEFT MAIN GEAR UPLOCK EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 12WT-ON-GEAR SW SJ02 EL4H	LD 1 5 28 0 0 1 28 0 150 P1
EL4D 1PC2 SYNCHRO AMIR EL2C	LS13 511.8600 11.8 20 1
EL4D 2RH GEAR UPLOCK SW FM3C	LD 1 5 28 0 0 1 28 0 150 P1
EL4D 3RIGHT GEAR DOWN-LKD EL2HEL4B	LD 1 5 0 0 0 1 100 10K 40 A1
EL4D 4DECK COMPRESS SWITCHEL4AEL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL4D 5RIGHT GEAR UPLOCK SWEL4A	LD 1 5 0 0 0 1 100 10K 50 A1
EL4D 6RIGHT WHL SPD SENSOREL4B	LA11 50 10 0 4 AC 10 SK 4 AC1
EL4D 7COUNTING ACC XDUCK-1EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4D 8COUNTING ACC XDUCK-2EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4D 9COUNTING ACC XDUCK-3EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4D 10COUNTING ACC XDUCK-4EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4D 11COUNTING ACC XDUCK-5EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4F 1CAMERA TEST SWITCH EL4F	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 1PC3 SYNCHRO AMIR EL2C	LS13 511.8600 11.8 20 1
EL5A 2MANUAL FUEL SHUTOFF EL5A	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 3DUDE PANEL EL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL5A 4JET FUEL STARTER EL5AEL5AEL2BEL2C	LD 1 5 28 0 0 1 28 0 150 P1
EL5A 5ANTI-ICE VALVE EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 6ANTI-ICE INDICATOR EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 7ANTI-ICE FAILURE SW EL5A	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 8ANTI-ICE FAIL/RESET EL5A	LD 1 5 28 0 0 1 28 0 600 P1



EL5A 9TURBINE OUTLET PRESS	EL2A	LS13	511.8600	11.8	20	1
EL5A 10ENGINE THERMO (TOT)	EL2A	LA 7	5.025 0	0 DC.025	50	0 DC1
EL5A 11OIL QUANTITY XMTR	EL2A	MD				
EL5A 12LOW OIL PRESS SW	EL2A	LD 1	5 28 0	0 1 28	0 600	P1
EL5A 13OIL PRESS XMTR	EL2A	LS13	511.8600	11.8	20	1
EL5A 14TACHOMETER GENERATOR	EL2A	LA 8	5 22 0	0 AC 22	5K	0 AC1
EL5A 15NG STK INPUT XDUCER	EL1A	LA 9	5 43 0	0 AC 43	10K	0 AC1
EL5A 16ARRESTING GR DOWN SW	EL2C	LD 1	5 0 0	0 1 100	10K	50 A1
EL5A 17ARR GEAR UP-AND-LKD	EL2C	LD 1	5 0 0	0 1 100	10K	50 A1
EL5A 18HOOK DOWN LIGHT	EL2C	LD 1	5 28 0	0 1 28	0 600	P1
EL5A 19HEAT SENSING CABLE	EL2A	LD 1	5 5 0	0 1 5	0 500	P1
EL5A 20CAMERA 1	EL4B	LA 8	10 8 0	0 AC 8	5K	0 AC1
EL5A 21CAMERA 2	EL4B	LA 8	10 10 0	0 AC 10	10K	0 AC1
FC2A 1ROLL STICK FORCE CH1	FC4B	LA12	50 .2 0	0 AC .2	200	0 AC1
FC2A 2ROLL STICK FORCE CH2	FC4B	LA12	50 .2 0	0 AC .2	200	0 AC1
FC2A 3ROLL TRIM	FC4A	LD 1	50 28 0	0 1 28	0 600	P1
FC2A 4PITCH STICK FORCE 1	FC4A	LA12	50 .75 0	0 AC .75	600	0 AC1
FC2A 5PITCH STICK FORCE 2	FC4A	LA12	50 .75 0	0 AC .75	600	0 AC1
FC2A 6PITCH TRIM	FC4B	LD 1	50 28 0	0 1 28	0 600	P1
FC2B 1FLAP HANDLE DOWN SW	FC4AFC4A	LD 1	5 28 0	0 1 28	0 600	P1
FC2B 2TE FLAP UP BEEP SW	FC4A	LD 1	5 28 0	0 1 28	0 600	P1
FC2B 3TE FLAP DOWN BEEP SW	FC4AFC4A	LD 1	5 28 0	0 1 28	0 150	P1
FC2B 4FLAP HANDLE 180	FC2B	LD 1	5 28 0	0 1 28	0 600	P1
FC2B 5SEWER FLAP SW S204	FC1A	LD 1	5 28 0	0 1 28	0 150	P1
FC2B 6SPEED BRAKE OPEN	FC4A	LD 1	5 28 0	0 1 28	0 600	P1
FC2B 7SPEED BRAKE CLOSE	FC4A	LD 1	5 28 0	0 1 28	0 600	P1
FC2B 8ATTITUDE ENGAGE	FC4B	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 9CONTROL AUG ENGAGE	FC4B	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 10HEADING ENGAGE	FC4B	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 11HEADING SEL ENGAGE	FC4B	LD 1	10 28 0	0 1 28	0 600	P1
FC2B 12GAIN CHANGE L/C CH1	FC4B	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 13GAIN CHANGE L/C CH2	FC4B	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 14RATE SELF TEST	FC4B	LD 1	10 28 0	0 1 28	0 600	P1
FC2B 15MONITOR SELF TEST	FC4B	LD 1	10 28 0	0 1 28	0 600	P1
FC2B 16ATTITUDE ENGAGE CH 1	FC4A	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 17ATTITUDE ENGAGE CH 2	FC4A	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 18CONT AUG ENGAGE	FC4A	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 19GAIN CHANGE L/C CH 1	FC4A	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 20GAIN CHANGE L/C CH 2	FC4A	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 21RATE/ACCEL SELF TEST	FC4A	LD 1	10 28 0	0 1 28	0 600	P1
FC2B 22MONITOR SELF TEST	FC4A	LD 1	10 28 0	0 1 28	0 600	P1
FC2B 23ATTITUDE SELF TEST	FC4A	LD 1	10 28 0	0 1 28	0 600	P1
FC2B 24YAW TRIM CH 1	FC4A	LA12	50 13 0	0 AC 13	5K	0 AC1
FC2B 25YAW TRIM CH 2	FC4A	LA12	50 13 0	0 AC 13	5K	0 AC1
FC2B 26STAB ENGAGE	FC4A	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 27GAIN CHANGE L/C CH 1	FC4A	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 28GAIN CHANGE L/C CH 2	FC4A	LD 1	25 28 0	0 1 28	0 600	P1
FC2B 29RATE ACCEL SELFTEST	FC4A	LD 1	10 28 0	0 1 28	0 600	P1
FC2B 30MONITOR SELFTEST	FC4A	LD 1	10 28 0	0 1 28	0 600	P1
FC3A 1LEAD FLAP UPLK SW701FC1AFC3AFC2B		LD 1	5 0 0	0 1 100	10K	50 A1
FC3A 2LEAD FLAP UPLK SW703FC3AFC1A		LD 1	5 0 0	0 1 100	10K	50 A1
FC3A 3LEAD FLAP UPLK SW801FC1AFC3A		LD 1	5 0 0	0 1 100	10K	50 A1
FC3A 4LEAD FLAP UPLK SW803FC1AFC3B		LD 1	5 0 0	0 1 100	10K	50 A1
FC3A 5TE FLAP SYNCHRO XMTR	FC2B	LS13	511.8600	11.8	20	1
FC3A 6LE FLAP DOWN SW S707FC2B		LD 1	5 0 0	0 1 100	10K	50 A1
FC3B 1LEAD FLAP UPLK SW704FC1AFC3B		LD 1	5 0 0	0 1 100	10K	50 A1
FC3B 2LEAD FLAP UPLK SW702FC1AFC3B		LD 1	5 0 0	0 1 100	10K	50 A1
FC3B 3LEAD FLAP UPLK SW802FC1AFC3B		LD 1	5 0 0	0 1 100	10K	50 A1
FC4A 1LATCHING RI PNL K8-1FC4F		LD 1	5 28 0	0 1 28	0 150	P1
FC4A 2LATCHING RI PNL K8-2FC4F		LD 1	5 28 0	0 1 28	0 150	P1

FC4A 3SPEED BRAKE RY K6-1 FC4D	LD 1 5 28 0 0 1 28 0 150 P1
FC4A 4SPEED BRAKE RY K6-2 FC4D	LD 1 5 28 0 0 1 28 0 150 P1
FC4A 5HOLI ACT COMMAND CH1FC4A	LA12 50 5 0 0 DC 5 600 0 DC1
FC4A 6ROLL ACT COMMAND CH2FC4A	LA12 50 5 0 0 DC 5 600 0 DC1
FC4A 7ROLL ACT POSITION FC2A	LA12 10 5 0-2.5 DC 5 5K-2.5 DC1
FC4A 8VERSINE THETA CH 1 FC4A	LA12 50 13 0 0 AC 13 1K 0 AC1
FC4A 9VERSINE THETA CH 2 FC4A	LA12 50 13 0 0 AC 13 1K 0 AC1
FC4A 10ROLL FAIL H56A	LD 1 10 28 0 0 1 28 0 600 DC1
FC4A 11BEEP TRIM FC4B	LA 2 50 36 0 0 AC 36 5K 0 AC1
FC4A 12NORMAL ACCEL CH 1 FC4A	LA12 50 7 0 -2 AC 7 1K -2 AC1
FC4A 13NORMAL ACCEL CH 2 FC4A	LA12 50 7 0 -2 AC 7 1K -2 AC1
FC4A 14VERSINE ROLL/PITCH 1FC4A	LA12 50 13 0 0 AC 13 5K 0 AC1
FC4A 15VERSINE ROLL/PITCH 2FC4A	LA12 50 13 0 0 AC 13 5K 0 AC1
FC4A 16PITCH BEEP VERNIER FC4A	LD 1 50 28 0 0 1 28 0 600 P1
FC4A 17PITCH ACTUATOR CMD 1FC5A	LA12 50 5 0 0 DC 5 600 0 DC1
FC4A 18PITCH ACTUATOR CMD 2FC5A	LA12 50 5 0 0 DC 5 600 0 DC1
FC4A 19AUTO TRIM FC4A	LA12 50 17 0 0 AC 17 5K 0 AC1
FC4A 20YAW ACT CMD CH 1 FC5A	LA12 50 5 0 0 DC 5 600 0 DC1
FC4A 21YAW ACT CMD CH 2 FC5A	LA12 50 5 0 0 DC 5 600 0 DC1
FC4A 22YAW ACT POSITION FC2A	LA12 50 5 0-2.5 DC 5 5K-2.5 DC1
FC4B 1ROLL RATE CHANNEL 1 FC4B	LA12 50 5 0 0 AC 5 1K 0 AC1
FC4B 2ROLL RATE CHANNEL 2 FC4B	LA12 50 5 0 0 AC 5 1K 0 AC1
FC4B 3ROLL RATE SPD MON 1 FC4B	LA12 50 .3 0 0 AC .3 300 0 AC1
FC4B 4ROLL RATE SPD MON 2 FC4B	LA12 50 .3 0 0 AC .3 300 0 AC1
FC4B 5PITCH RATE CH 1 FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC4B 6PITCH RATE CH 2 FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC4B 7PITCH ATTITUDE FC4A	LS13 5011.8600 11.8 20 1
FC4B 8PITCH RATE SPD MON 1FC4A	LA12 10 .3 0 0 AC .3 50 0 AC1
FC4B 9PITCH RATE SPD MON 2FC4A	LA12 10 .3 0 0 AC .3 50 0 AC1
FC4B 10PITCH RT SELF TEST 1FC4A	LD 1 10 28 0 0 1 28 0 600 P1
FC4B 11PITCH RT SELF TEST 2FC4A	LD 1 10 28 0 0 1 28 0 600 P1
FC4B 12YAW RATE CH 1 FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC4B 13YAW RATE CH 2 FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC4B 14LATERAL ACCELERATIONFC4A	LA12 50 3.6 0-1.8 AC 3.6 1K-1.8 AC1
FC4B 15YAW RATE SPD MON CH1FC4A	LA12 50 .3 0 0 AC .3 50 0 AC1
FC4B 16YAW RATE SPD MON CH2FC4A	LA12 50 .3 0 0 AC .3 50 0 AC1
FC4B 17YAW RATE SELFTEST 1 FC4A	LD 1 25 28 0 0 1 28 0 600 P1
FC4B 18YAW RATE SELFTEST 2 FC4A	LD 1 25 28 0 0 1 28 0 600 P1
FC4B 19PITCH TRIM BEEP FC5A	LA12 50 5 0 0 DC 5 600 0 DC1
FC4C 1WEIGHT ON GEAR FC4BFC4AFC4A	LD 1 10 28 0 0 1 28 0 600 P1
FC4D 1ROLL FAIL FC4B	LD 1 10 28 0 0 1 28 0 600 P1
FC4D 2ROLL HYD FC4B	LD 1 50 28 0 0 1 28 0 600 P1
FC4D 3ROLL RATE SELFTEST 1FC4A	LD 1 10 28 0 0 1 28 0 600 P1
FC4D 4ROLL RATE SELFTEST 2FC4A	LD 1 10 28 0 0 1 28 0 600 P1
FC4F 1SPEED BRAKE POSIT SWFC2C	LD 1 5 28 0 0 1 28 0 600 P1
FC4F 2SPEED BRAKE POS AMIFC2A	LS13 511.8600 11.8 20 1
FC4F 3ROLL HYD PRESS FC2BMS6A	LD 1 25 28 0 0 1 28 0 600 P1
FC5A 1ROLL FOLLOW-UP CH 1 FC4B	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 2ROLL FOLLOW-UP CH 2 FC4B	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 3ROLL MONITOR CH 1 FC4B	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 4ROLL MONITOR CH 2 FC4B	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 5PITCH FOLLOW-UP CH 1FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 6PITCH FOLLOW-UP CH 2FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 7PITCH MONITOR CH 1 FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 8PITCH MONITOR CH 2 FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 9PITCH HYD FC4A	LD 1 50 28 0 0 1 28 0 600 P1
FC5A 10AILERON-TO-RUDDER 1FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 11AILERON-TO-RUDDER 2FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 12YAW FOLLOW-UP CH 1 FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 13YAW FOLLOW-UP CH 2 FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1



FC5A 141AW FOLLOW-UP MUN 1 FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 151AW FOLLOW-UP MUN 2 FC4A	LA12 50 5 0 0 AC 5 1K 0 AC1
FC5A 161AW HYD FC4A	LD 1 50 28 0 0 1 28 0 600 P1
FC5A 17RUDDER CENTER FC4A	LD 1 50 28 0 0 1 28 0 600 P1
FC5A 181AW HYD PRESS FC28MS6A	LD 1 25 28 0 0 1 28 0 600 P1
FC5A 19PITCH HYD PRESS FC28MS6A	LD 1 25 28 0 0 1 28 0 600 P1
FM1A 1FUEL XFER THM CONT 1FM5A	LD 1 5 0 0 0 1 100 10K 50 A1
FM1A 2FUEL XFER THM CONT 2FM5A	LD 1 5 0 0 0 1 100 10K 50 A1
FM1A 3FUEL XFER THM CONT 3FM4A	LD 1 5 28 0 0 1 28 0 600 P1
FM1A 4AK DUCK UP RELAY 1 FM1A	LD 1 5 5500 0 85 5 0 500 P1
FM1A 5AK DUCK UP RELAY 2 FM1A	LD 1 5 28 0 0 1 28 0 600 P1
FM1A 6AK DUCK UP RELAY 3 FM3C	LD 1 5 28 0 0 1 28 0 600 P1
FM1A 7SIGNAL AMP (READY) FM1AFM4A	LD 1 5 28 0 0 1 28 0 600 P1
FM1A 8DUOR DOWN RELAY FM2A	LD 1 5 28 0 0 1 28 0 600 P1
FM1A 9SIGNAL AMP (NOY/LAT)FM4A	LD 1 5 28 0 0 1 28 0 600 P1
FM1A 10SIGNAL AMP (LATCHED)FM4AFM2AFM4A	LD 1 5 28 0 0 1 28 0 600 P1
FM1A 11AK DISCONNECT SW FM4A	LD 1 5 28 0 0 1 28 0 600 P1
FM1A 12SIGNAL AMP (DISC) FM3C	LD 1 5 28 0 0 1 28 0 600 P1
FM1A 13AMP SWITCH A234-S8 FM1AFM4A	LD 1 5 28 0 0 1 28 0 600 P1
FM1A 14EXT TANK CAP SIM ST1D4E	LD 1 5 0 0 0 1 100 10K 50 A1
FM1A 15EXT TANK CAP SIM ST31D4G	LD 1 5 0 0 0 1 100 10K 50 A1
FM1A 16EXT TANK CAP SIM ST61D4J	LD 1 5 0 0 0 1 100 10K 50 A1
FM1A 17EXT TANK CAP SIM ST61D4L	LD 1 5 0 0 0 1 100 10K 50 A1
FM1A 18EXT CAP SIM MUN 1 FM1A	LA13 5 10 0 10 AC 10 10K 10 AC1
FM1A 19EXT CAP SIM MUN 2 FM1A	LA13 5 10 0 10 AC 10 10K 10 AC1
FM1A 20EXT CAP SIM MUN 3 FM1A	LA13 5 10 0 10 AC 10 10K 10 AC1
FM1A 21EXT CAP SIM MUN 4 FM1A	LA13 5 10 0 10 AC 10 10K 10 AC1
FM1A 22LOW LEVEL IND SURF FM2B	LD 1 5 28 0 0 1 28 0 600 P1
FM1A 23LOW LEVEL IND FUEL FM2B	LD 1 5 28 0 0 1 28 0 600 P1
FM2A 1FUEL QUANT SURF TANKFM4E	LA 9 5 1.5 0 0 AC 1.5 1K 0 AC1
FM2A 2FUEL QUANT R FWD TANKFM4E	LA 9 5 1.5 0 0 AC 1.5 1K 0 AC1
FM2A 3FUEL QUANT L FWD TANKFM4E	LA 9 5 1.5 0 0 AC 1.5 1K 0 AC1
FM2B 1FUEL CONTINUL SW11CH FM2CFM2CFM5A	LD 1 5 28 0 0 1 28 0 600 P1
FM2B 2FUEL DUMP SW=DUMP FM3CFM3C	LD 1 5 28 0 0 1 28 0 150 P1
FM2B 3FUEL DUMP SW= OFF FM3CFM3C	LD 1 5 28 0 0 1 28 0 150 P1
FM2B 4RING FUEL XFER SW FM2B	LD 1 5 28 0 0 1 28 0 600 P1
FM2B 5REL HAND SW 5267 ON FM4A	LD 1 5 28 0 0 1 28 0 600 P1
FM2B 6REL HAND SW 5268 ON FM4A	LD 1 5 28 0 0 1 28 0 600 P1
FM2B 7REL HAND SW 5268 OFFFM1A	LD 1 5 28 0 0 1 28 0 600 P1
FM2B 8AK RESET SW 5266-1 FM2B	LD 1 5 28 0 0 1 28 0 600 P1
FM2B 9AK RESET SW 5266-2 FM2B	LD 1 5 28 0 0 1 28 0 600 P1
FM2B 10AK RESET SW 5266-3 FM4A	LD 1 5 28 0 0 1 28 0 600 P1
FM2B 11FUEL TANK MONITOR 1 FM2A	LA13 5 10 0 10 AC 10 10K 10 AC1
FM2B 12FUEL TANK MONITOR 2 FM2A	LA13 5 4 0 3 AC 4 5K 3 AC1
FM2B 13FUEL TANK MONITOR 3 FM2A	LA13 5 10 0 10 AC 10 10K 10 AC1
FM3C 1AK DUCK UP SWITCH FM1A	LD 1 5 28 0 0 1 28 0 600 P1
FM3C 2AK DUCK DN SWITCH FM1A	LD 1 5 28 0 0 1 28 0 600 P1
FM3C 3FUEL PRESSURE SWITCHFM3C	LD 1 5 28 0 0 1 28 0 600 P1
FM3C 4INDUCI COIL, AK RECPTFM4A	LD 1 5 28 0 0 1 28 0 600 P1
FM3C 5AK RECEIPT NOZZLE LKDFM3CFM4A	LD 1 5 28 0 0 1 28 0 600 P1
FM3C 6AK RECEIPT HOLDING NIFM3C	LD 1 5 28 0 0 1 28 0 600 P1
FM3C 7RING TANK QUANTITY 1FM2B	LA13 5 10 0 10 AC 10 10K 10 AC1
FM3C 8RING TANK QUANTITY 2FM2B	LA13 5 10 0 10 AC 10 10K 10 AC1
FM4A 1THM 1 RT FWD TANK 1 FM1A	LA 4 5 5.7 0 1.3 DC 5.7 1K 1.3 DC1
FM4A 2THM 1 RT FWD TANK 2 FM1A	LA 4 5 5.7 0 1.3 DC 5.7 1K 1.3 DC1
FM4A 3THM 2 AFT TANK 1 FM1A	LA 4 5 5.7 0 1.3 DC 5.7 1K 1.3 DC1
FM4A 4THM 2 AFT TANK 2 FM1A	LA 4 5 5.7 0 1.3 DC 5.7 1K 1.3 DC1
FM4A 5AFER RELAY K10-1 FM5A	LD 1 5 28 0 0 1 28 0 600 P1
FM4A 6AFER RELAY K10-2 FM5A	LD 1 5 28 0 0 1 28 0 600 P1
FM4A 7AFER RELAY K5-1 FM5A	LD 1 5 28 0 0 1 28 0 600 P1



FM4A 2XFER RELAY K5-2	FM5A	LD 1	5	28	0	0	1	28	0	600	P1
FM4A 9RELAY A301-K5	FM5A	LD 1	5	0	0	0	1	100	10K	50	A1
FM4A 10AM DIODE CR7	FM4A	LD 1	5	28	0	0	1	28	0	600	P1
FM4A 11AR DIODE CR8	FM4A	LD 1	5	28	0	0	1	28	0	600	P1
FM4A 12LDC GEAR NO 2 RELAY	FM4A	LD 1	5	28	0	0	1	28	0	600	P1
FM4A 13AIR REFUEL RELAY K5	FM1A	LD 1	5	5500	0	0	5	0	500	P1	
FM4A 14DIODE A351-CR16	FM3C	LD 1	5	28	0	0	1	28	0	600	P1
FM4A 15DIODE A351-CR17	FM4AFM3C	LD 1	5	28	0	0	1	28	0	600	P1
FM4A 16AR ON RELAY	FM2AFM3CFM1AEL4ALD	LD 1	5	28	0	0	1	28	0	600	P1
FM4A 17OVERRIDE RELAY K7	FM4AFM4AFM1A	LD 1	5	28	0	0	1	28	0	600	P1
FM4A 18LEFT FWD FUEL TANK	FM2A	LA13	5	1.5	0	0	AC	1.5	1K	0	AC1
FM4A 19FUEL QUANT LEFT FWD	FM2B	LA13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4A 20FUEL QUANT LEFT MID	FM4BFM5A	LA13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4A 21FUEL QUANT LEFT FWD	FM4B	LA13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4A 22LEFT FWD THERM 3	FM1A	LA 4	5	13	0	7	DC	13	10K	7	DC1
FM4B 1FUEL TRANSFER ELEC 1FM5A		LD 1	5	28	0	0	1	28	0	150	P1
FM4B 2FUEL TRANSFER ELEC 2FM5A		LD 1	5	28	0	0	1	28	0	150	P1
FM4B 3FUEL TRANSFER ELEC 3FM5A		LD 1	5	28	0	0	1	28	0	150	P1
FM4B 4RELAY A302-K5	FM3C	LD 1	5	28	0	0	1	28	0	150	P1
FM4B 5AIR REFUEL SW STA 1 TD4E		LD 1	5	28	0	0	1	28	0	150	P1
FM4B 6AIR REFUEL SW STA 2 TD4F		LD 1	5	28	0	0	1	28	0	150	P1
FM4B 7AIR REFUEL SW STA 6 TD4J		LD 1	5	28	0	0	1	28	0	150	P1
FM4B 8AIR REFUEL SW STA 8 TD4L		LD 1	5	28	0	0	1	28	0	150	P1
FM4B 9RIGHT FWD FUEL TANK	FM2A	LA13	5	1.5	0	0	AC	1.5	1K	0	AC1
FM4B 10FUEL QUANT RIGHT MID	FM4BFM4A	LA13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4B 11FUEL QUANT RIGHT FWD	FM4BFM4B	LA13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4C 1GND REFUEL SW STA 1 TD4E		LD 1	5	28	0	0	1	28	0	150	P1
FM4C 2GND REFUEL SW STA 3 TD4G		LD 1	5	28	0	0	1	28	0	150	P1
FM4C 3GND REFUEL SW STA 6 TD4J		LD 1	5	28	0	0	1	28	0	150	P1
FM4C 4GND REFUEL SW STA 8 TD4L		LD 1	5	28	0	0	1	28	0	150	P1
FM4E 1SUMP TANK QUANTITY	FM2A	LA13	5	1.5	0	0	AC	1.5	1K	0	AC1
FM4E 2FUEL QUANT SUMP	FM5A	LA13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4E 3LOW FUEL WARNING	FM4EFM4A	LA 4	5	3.5	0	10	DC	3.5	10K	10	DC1
FM4E 4SUMP TANK THERM 4	FM1A	LA 4	5	13	0	7	DC	13	10K	7	DC1
FM5A 1FUEL FLOW	FM2A	LA10	5	5	0	0	AC	5	500	5	AC1
FM5A 2HP FUEL PUMP LOW 1	EL2C	LD 1	5	28	0	0	1	28	0	600	P1
FM5A 3HP FUEL PUMP LOW 2	EL2C	LD 1	5	28	0	0	1	28	0	600	P1
FM5A 4FUEL BOOST PRESS 1	EL2C	LD 1	5	28	0	0	1	28	0	600	P1
FM5A 5LP FUEL PUMP PRESS	2EL2C	LD 1	5	28	0	0	1	28	0	600	P1
FM5A 6FUEL QUANT AFT	FM4AFM4E	LA13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
MS1A 1BLANKING OUT CHAN 1 NV6A		HD									1
MS1A 2BLANKING OUT CHAN 2 CM1D		HD									1
MS1A 3BLANKING OUT CHAN 3 CM3A		HD									1
MS1A 4BLANKING OUT CHAN 4 CM3A		HD									1
MS2A 1EJECT SWITCH	CH2ACH2B	LD 1	5	28	0	0	1	28	0	600	P1
MS5A 1GEARING GEAR INTERLOCK	TD4A	LD01	5	28	0	0	1	28	0	600	P1
MS5A 8GEAR UP + LOCK	TD4A	LD01	5	28	0	0	1	28	0	600	P1
NV1A 1DECENTER	TD1A	LD 1	5	5	0	0	1	5	0	500	P1
NV1A 2HOLD	TD1A	LD 1	5	5	0	0	1	5	0	500	P1
NV1A 3SCALE	TD1A	LD 1	5	5	0	0	1	5	0	500	P1
NV1A 4NORTH UP	TD1A	LD 1	5	5	0	0	1	5	0	500	P1
NV1A 5SCALE-10	TD1A	LD 1	5	5	0	0	1	5	0	500	P1
NV1A 6E/W SLEW	NV8B	LA 8	5	5	0	0	AC	5	1K	0	AC1
NV1A 7MANUAL	NV8B	LD 1	5	28	0	0	1	28	0	600	P1
NV1A 8BRIGHTNESS	NV8E	LA 8	5	23	0	0	DC	23	5K	0	DC1
NV1A 9TEST	NV8B	LD 1	5	5	0	0	1	5	0	500	P1
NV1A 10DATA	NV8B	LD 1	5	5	0	0	1	5	0	500	P1
NV1A 11OPERATE	NV8B	LD 1	5	5	0	0	1	5	0	500	P1
NV1A 12N/S SIN	NV8B	LS13	5	3.6500				3.6	5		1
NV1A 13N/S COS	NV8B	LS13	5	3.6500				3.6	5		1

NV1A 14E/W SIN-COARSE	NV8E	LS13	5	3.6500	3.6	5	1
NV1A 15E/W COS-COARSE	NV8H	LS13	5	3.6500	3.6	5	1
NV1A 16E/W SIN-MED	NV8B	LS13	5	3.6500	3.6	5	1
NV1A 17E/W COS-MED	NV8H	LS13	5	3.6500	3.6	5	1
NV1A 18E/W SIN-FINE	NV8H	LS13	5	3.6500	3.6	5	1
NV1A 19E/W COS-FINE	NV8E	LS13	5	3.6500	3.6	5	1
NV1A 20HEADING SIN	NV8H	LS13	5	3.6500	3.6	5	1
NV1A 21HEADING COS	NV8H	LS13	5	3.6500	3.6	5	1
NV1A 22BEARING SIN	NV8H	LS13	5	3.6500	3.6	5	1
NV1A 23BEARING COS	NV1B	LS13	5	3.6500	3.6	5	1
NV1A 24ORIENT SIN	NV1B	LS13	5	3.6500	3.6	5	1
NV1A 25ORIENT COS	NV1B	LS13	5	3.6500	3.6	5	1
NV1A 26E/W RATE FEEDBACK	NV1B	LS13	5	3.1500	3.1	5	1
NV1A 27N/S RATE FEEDBACK	NV1B	LS13	5	3.1500	3.1	5	1
NV1A 28ORIENT RATE FDBK	NV1B	LS13	5	3.1500	3.1	5	1
NV1A 29BEARING RATE FDBK	NV1B	LS13	5	3.1500	3.1	5	1
NV1A 30HEADING RATE FDBK	NV1B	LS13	5	3.1500	3.1	5	1
NV1B 1E/W DRIVE (1)	NV1A	LA13	5	17 0	0 AC 17	3K 0 AC1	
NV1B 2E/W DRIVE (2)	NV1A	LA13	5	17 0	0 AC 17	3K 0 AC1	
NV1B 3N/S DRIVE	NV1A	LA13	5	17 0	0 AC 17	3K 0 AC1	
NV1B 4BEARING DRIVE	NV1A	LA13	5	17 0	0 AC 17	3K 0 AC1	
NV1B 5HEADING DRIVE	NV1A	LA13	5	17 0	0 AC 17	3K 0 AC1	
NV1B 6ORIENT DRIVE	NV1A	LA13	5	17 0	0 AC 17	3K 0 AC1	
NV1B 7SLEW HI	NV1A	LA 8	5	5 0	0 AC 5	5K 0 AC1	
NV1B 8PERFORMANCE IND	NV1A	LD 1	5	28 0	0 1 28	0 600 P1	
NV2A 1N INCREMENTAL VEL	TD1A	HD					1
NV2A 2E INCREMENTAL VEL	ID1A	HD					1
NV2A 3V INCREMENTAL VEL	ID1A	HD					1
NV2A 4PITCH ATTITUDE	ID1A	LS13	2511.8600		11.8	20	1
NV2A 5ROLL ATTITUDE	TD1A	LS13	2511.8600		11.8	20	1
NV2A 6A CAPRI RELAY COIL	NV2A	LD 1	5	25 0	0 1 25	0 150 P1	
NV2A 7Y CAPRI RELAY COIL	NV2A	LD 1	5	25 0	0 1 25	0 150 P1	
NV2A 81MV HITE/FW	NV2C	LD 1	5	5 0	0 1 5	0 500 P1	
NV2A 9AZ SYNCHRO	NV2C	LS13	5011.8 50		11.8	200	1
NV2A 10PITCH SYNCHRO	NV2C	LS13	5011.8 50		11.8	200	1
NV2A 11ROLL SYNCHRO	NV2C	LS13	5011.8 50		11.8	200	1
NV2B 1PLAT GRID	NV2C	LD 1	5	0 0	0 1 100	10K 50 A1	
NV2B 2INERTIAL	NV2CTD1A	LD 1	5	0 0	0 1 100	10K 50 A1	
NV2B 3NORMAL	NV2CTD1A	LD 1	5	0 0	0 1 100	10K 50 A1	
NV2B 4Z VDC SWITCHED	NV2C	LD 1	5	28 0	0 1 28	0 150 P1	
NV2B 5CABLE MONITOR	NV2C	LD 1	5	5500	0 85 5	0 500 P1	
NV2B 6FAST SLEW	NV2C	LD 1	5	5 0	0 1 5	0 500 P1	
NV2B 7FAST SLEW SENSE	NV2C	LD 1	5	5 0	0 1 5	0 500 P1	
NV2B 8MAGNETIC VARIATION	NV2C	LS13	2511.8600		11.8	20	
NV2B 9WE SIN LAMBDA	NV2C	LA13	5	30 0	-15 DC 30	5K -15 DC1	
NV2B 10GRID SLEW (SLOW)	NV2C	LD 1	5	4 0	-4 0 4	4 1K P1	
NV2B 11CLUTCH INHIBIT NO. 2	NV2C	LD 1	5	28 0	0 1 28	0 600 P1	
NV2B 12GROUND ALIGN	NV2CTD1A	LD 1	5	0 0	0 1 100	10K 50 A1	
NV2B 13MAGNETIC SLAVE	NV2CTD1A	LD 1	5	0 0	0 1 100	10K 50 A1	
NV2B 14GRID	ID1A	LD 1	5	0 0	0 1 100	10K 50 A1	
NV2C 1GROUND ALIGN LIGHT	MS6A	LD 1	5	28 0	0 1 28	0 600 P1	
NV2C 2IMS FAIL LIGHT	MS3A	LD 1	5	28 0	0 1 28	0 600 P1	
NV2C 3CLUTCH INHIBIT	FC4A	LD 1	50	28 0	0 1 28	0 600 P1	
NV2C 4CLUTCHED TH	FC4A	LS13	5011.8 50		11.8	200	1
NV2C 5MAGNETIC HEADING	NV6DNV6ANV2F	LS13	511.8 50		11.8	200	1
NV2C 6ROLL ATTITUDE 1	IDSANV8A	LS13	2511.8600		11.8	20	1
NV2C 7ROLL ATTITUDE 2	NV2FNV2E	LS13	511.8 50		11.8	200	1
NV2C 8PITCH ATTITUDE 1	IDSANV8A	LS13	2511.8600		11.8	20	1
NV2C 9PITCH ATTITUDE 2	NV2FNV2E	LS13	511.8 50		11.8	200	1
NV2C 10SYSTEM DISCONNECT	FC4A	LD 1	50	0 0	0 1 100	10K 50 A1	



NV2C 11SYSTEM DISCONNECT	TD5ANV8A	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 12SYSTEM DISCONNECT	NV2F	LD 1 5 0 0 0 1 100 10K 50 A1
NV2C 13ROLL ATTITUDE	FC4A	LS13 5011.8600 11.8 200 1
NV2C 14PITCH ATTITUDE	FC4A	LS13 5011.8600 11.8 200 1
NV2C 15SYSTEM READY	TD1A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 16IMS FAIL	TD1A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 17AUTOCAL INITIATE	TD1A	LD 1 5 0 0 0 1 100 10K 50 A1
NV2C 18AZCX OR MAGNETIC VARTD1A	TD1A	LS13 511.8600 11.8 20 1
NV2C 19RELAY CONTROL (D4)	NV2A	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 20AZ GYRO TORQUE	NV2A	LA12 25 8 0 -4 DC 8 5K -4 DC1
NV2C 21D1 + D17	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 22D2 + D9	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 23D3 + D11	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 24D4 + D12	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 25D8	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 262B VDC AIRCRAFT	NV2B	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 27CABLE MONITOR	NV2B	LD 1 5 5500 0 85 5 0 500 P1
NV2C 28BATTERY CONTROL	NV2B	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 29GND ALIGN LIGHT	NV2B	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 30CDX EXC	NV2B	LS13 2511.8600 11.8 20 1
NV2C 31CLUTCH INHIBIT NU. 3NV2B	NV2B	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 32AZIMUTH CAGE	NV2A	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 33WE SIN LAMBDA	NV2A	LA13 5 30 0 -15 DC 30 5K -15 DC1
NV2D 1MAGNETIC HEADING	NV2CID1A	LS13 2511.8600 11.8 20 1
NV2E 1VERTICAL POINTER	NV7A	LA12 5 16100-2.5 DC 16 10K-2.5 DC1
NV2E 2HORIZONTAL POINTER	NV7A	LA12 5 16100-2.5 DC 16 10K-2.5 DC1
NV2E 3HUD LOCALIZER DEV	TD3B	LA12 5 6100 -3 DC 6 1K -3 DC1
NV2E 4HUD GLIDE SLOPE DEV	TD3B	LA12 5 6100 -3 DC 6 1K -3 DC1
NV2E 5HS1 COURSE DEV BAR	NV7A	LA12 5 .4100 -.2 DC .4 1K -.2 DC1
NV2E 6ADI DISP POINTER	NV7A	LA12 5 .4100 -.2 DC .4 1K -.2 DC1
NV2E 7VERTICAL POINTER FLGNV7A	NV7A	LD 1 5 .76 0-.48 0 .76-.48 1K P1
NV2E 8HORIZONTAL PT FLAG	NV7A	LD 1 5 .76 0-.48 0 .76-.48 1K P1
NV2E 9HS1 COURSE DEV FLAG	NV7A	LD 1 5 .76 0-.48 0 .76-.48 1K P1
NV2E 10ADI DISP POINTER FLGNV7A	NV7A	LD 1 5 .76 0-.48 0 .76-.48 1K P1
NV2E 11VERTICAL BEAM SENSE	NV7A	LD 1 5 0 0 0 1 100 10K 50 A1
NV3A 1UHF RF (RCVR)	CU1A	HA 1
NV3A 2UHF RF IN/OUT	CU6G	HA 1
NV3A8 7SHIELD GND	PR3A	PR 1
NV3A8 8GROUND	PR3A	PR 1
NV3A814MOTOR CONTROL	NV3B	PR 1
NV3A817100HZ EXCITATION 1	NV3B	PR 1
NV3A818100HZ EXCITATION 2	NV3B	PR 1
NV3A821115V 400HZ	NV3B	PR 1
NV3B 1UHF ADF RF (RCVR)	NV3A	HA 1
NV3B 2BEARING IO ADF SIA	NV7A	LS13 511.8 50 11.8 200 1
NV3B1 BBEARING SYNCHRO X	NV7A	LS13 1011.8 50 11.8 200 1
NV3B1 CBEARING SYNCHRO Y	NV7A	1
NV3B1 KRATE SIGNAL 1	NV3A	PR 1
NV3B1 LRATE SIGNAL 2	NV3A	PR 1
NV3B1 W115VAC 3PHASE OUT	NV3A	PR 1
NV3B1 PBEARING SYNCHRO Z	NV7APR3A	GND 1
NV3B1 XPOWER GND	PR3A	PR 1
NV3B2 ADF RF	NV3A	HA 225-399.95MHZ 1
NV4A 1TRANSMIT RF	NV4C	HA 1
NV4A 2CRYSTAL SWITCHING	NV4C	HD 1
NV4A 3RANGE	NV4C	LA10 5 26 0 0 DC 26 5K 0 DC1
NV4A 4ALTITUDE	NV4BNV4E	LA10 5 26 0 0 DC 26 5K 0 DC1
NV4A 5RELIABILITY	NV4E	LD 1 5 5 3 0 0 5 3 1K P1
NV4A 6BLANKING	MS1A	HD 1
NV4B 1SELF TEST	NV4A	LD 1 5 0 0 0 1 100 10K 50 A1



NV4B 2LOW ALT WARNING	NV4B	LD 1 10 28 0 0 1 28 0 600 P1	1
NV4C 1TRANSMIT RF	NV4G	HA	1
NV4C 2ALTIITUDE MODE	NV4A	LD 1 5 35 0 0 1 35 0 1K P1	1
NV4D 1RECEIVE RF	NV4A	HA	1
NV4E 1LINEARIZED ALTIITUDE	1D5A1D1A1D3MNV2E	LA12 25 25 0 0 DC 25 5K 0 DC1	1
NV4E 2MODIFIED RELIABILITY	TDSCNV2E	LD 1 25 5 0 0 1 5 0 500 P1	1
NV4F 1SELF TEST	NV4A	LD 1 5 0 0 0 1 100 10K 50 A1	1
NV5A4 MDEV +	NV7A	LA06 10 5100-2.5 DC 5 5K-2.5 DC1	1
NV5A4 MDEV -	NV7A	MD	1
NV5A4 MMK BEACON AUDIO	CU3A	AA0418K	1
NV5A4 VFLAG +	NV7A	LD01 5 2 72 0 2 0 10K P1	1
NV5A4 MMK BEACON AUDIO RET	CU3A	AA0418K	1
NV5A4 XFLAG -	PR3A	PR	1
NV5A4 ZGROUND	PR3A	PR	1
NV5A4SAMK BEACON LAMP	NV5G	LD01 10 28 0 0 1 28 0 600 P1	1
NV5B4 MDEV +	NV7A	LA06 10 6100-2.5 DC 5 5K-2.5 DC1	1
NV5B4 MDEV -	NV7A	LD01 5 28 7K 0 1 28 0 10K P1	1
NV5B4 V+ FLAG	NV7A	LD01 5 28 7K 0 1 28 0 10K P1	1
NV5B4 X- FLAG	NV7A	LD01 5 28 7K 0 1 28 0 10K P1	1
NV5B4 ZGROUND	PR3A	PR	1
NV5B4SALOCALIZER AUDIO	NV5C	AA	1
NV5B4SALOCALIZER AUDIO RET	NV5C	AA	1
NV5C1 EFREQUENCY CONTROL	NV5ANV5B	LD01 1 0 0 0 1 100 10K 40 A1	1
NV5C1 FFREQUENCY CONTROL	NV5ANV5B	LD01 1 0 0 0 1 100 10K 40 A1	1
NV5C1 GFREQUENCY CONTROL	NV5ANV5B	LD01 1 0 0 0 1 100 10K 40 A1	1
NV5C1 HFREQUENCY CONTROL	NV5ANV5B	LD01 1 0 0 0 1 100 10K 40 A1	1
NV5C1 JFREQUENCY CONTROL	NV5ANV5B	LD01 1 0 0 0 1 100 10K 40 A1	1
NV5C1 KFREQUENCY CONTROL	NV5ANV5B	LD01 1 0 0 0 1 100 10K 40 A1	1
NV5C1 LFREQUENCY CONTROL	NV5ANV5B	LD01 1 0 0 0 1 100 10K 40 A1	1
NV5C1 MFREQUENCY CONTROL	NV5ANV5B	LD01 1 0 0 0 1 100 10K 40 A1	1
NV5C1 NFREQUENCY CONTROL	NV5ANV5B	LD01 1 0 0 0 1 100 10K 40 A1	1
NV5C1 PFREQUENCY CONTROL	NV5ANV5B	LD01 1 0 0 0 1 100 10K 40 A1	1
NV5C1 QGROUND	PR3A	PR	1
NV5C1 VA-B SWITCH	NV5ANV5B	LD01 1 0 0 0 1 100 10K 40 A1	1
NV5C1 WLOCALIZER AUDIO	CU3A	AA0418K	1
NV5C1 XPOWER SWITCH	NV5ANV5B	LD01 5 0 0 0 1 100 10K 40 A1	1
NV5C1 YLOCALIZER AUDIO OUT	CU3A	AA0418K	1
NV5D1 LOCALIZER RF	NV5B	HA 108.1-111MHZ	1
NV5E1 MMK BKN RF	NV5A	HA 75MHZ	1
NV5F1 GLIDE SLOPE RF	NV5A	HA 329.6-334.7MHZ	1
NV6A 1RECEIVE-AMIT RF	NV6C	HA	1
NV6A 2IDENT AUDIO	CU3A	AA	1
NV6A 3ANTENNA SELECT	CU6D	LD 1 5 28 0 0 1 28 0 600 P1	1
NV6A 4BLANKING OUT	MS1A	HD	1
NV6A 5RANGE UNITS	NV7A	LS 7 511.8 50 11.8 200 1	1
NV6A 6RANGE TENS	NV7A	LS 7 511.8 50 11.8 200 1	1
NV6A 7RANGE HUNDREDS	NV7A	LS 7 511.8 50 11.8 200 1	1
NV6A 8RANGE FLAG	NV7A	LD 1 5 0 0 0 1 100 10K 50 A1	1
NV6A 9BEARING	NV7A	LS13 511.8 50 11.8 200 1	1
NV6A 10BEARING FLAG	NV7A	LD 1 5 .38 0 0 1 .38 0 1K P1	1
NV6A 11COURSE DEVIATION	NV7A	LA12 5 .4 0 -.2 DC .4 1K -.2 DC1	1
NV6A 12TO/FROM (COURSE)	NV7A	LA12 5 .6 0 -.3 DC .6 200 -.3 DC1	1
NV6A 13COURSE	NV7A	LS13 511.8 50 11.8 200 1	1
NV6B 1FINE CHANNEL	NV6A	LA 7 5 16 0 0 AC 16 3K 0 AC1	1
NV6B 2COARSE CHANNEL	NV6A	LA 7 5 26 0 0 AC 26 3K 0 AC1	1
NV6B 3RCVR MOD LOW	NV6A	LD 1 5 0 0 0 1 100 10K 50 A1	1
NV6B 41/R MOD LOW	NV6A	LD 1 5 0 0 0 1 100 10K 50 A1	1
NV6B 51/R MOD HIGH	NV6A	LD 1 5 28 0 0 1 28 0 600 P1	1
NV6B 6A/A MODE HIGH	NV6A	LD 1 5 28 0 0 1 28 0 600 P1	1
NV7A 1MANUAL MODE	NV2E	LD 1 5 28 0 0 1 28 0 600 P1	1

NV7A	2TACAN MODE	NV2E	LD 1	5	28	0	0	1	28	0	600	P1
NV7A	3LANDING MODE	NV2E	LD 1	5	28	0	0	1	28	0	600	P1
NV7A	4HEADING ERROR	NV2E	LS13	522.5600					22.5	30		1
NV7A	5COURSE ERROR	NV2E	LS13	522.5600					22.5	30		1
NV7A	6VERTICAL POINTER	NV2F	LA12	5	5	0-2.5	DC	5	1K-2.5	DC1		
NV7A	7VERTICAL POINTER FLAG	NV2F	LD 1	5	28	0	0	1	28	0	1K	P1
NV7A	8HORIZONTAL POINTER	NV2F	LA12	5	5	0-2.5	DC	5	1K-2.5	DC1		
NV7A	9HORIZ POINTER FLAG	NV2F	LD 1	5	28	0	0	1	28	0	1K	P1
NV7A	10DISPLACEMENT POINTER	NV2F	LA12	5	5	0-2.5	DC	5	1K-2.5	DC1		
NV7A	11DISPL POINTER FLAG	NV2F	LD 1	5	28	0	0	1	28	0	1K	P1
NV7A	12BEARING POINTER NO.1	NV6D	LS13	511.8	50				11.8	200		1
NV7A	13BEARING POINTER NO.2	NV6D	LS13	511.8	50				11.8	200		1
NV7A	14COURSE DEVIATION	NV6D	LA12	5	5	0-2.5	DC	5	1K-2.5	DC1		
NV7A	15COURSE DEV FLAG	NV6D	LD 1	5	28	0	0	1	28	0	1K	P1
NV7A	1610/FRON ARROW	NV6D	LD 1	5	28	0	0	1	28	0	200	P1
NV7A	17RANGE UNITS	NV6D	LS 7	511.8	50				11.8	200		1
NV7A	18RANGE TENS	NV6D	LS 7	511.8	50				11.8	200		1
NV7A	19RANGE HUNDREDS	NV6D	LS 7	511.8	50				11.8	200		1
NV7A	201000 N. MILE DIGIT	NV6D	LD 1	5	28	0	0	1	28	0	1K	P1
NV7A	21PITCH STEERING	TD3B	LA12	5	5	0-2.5	DC	5	1K-2.5	DC1		
NV7A	22PITCH STEERING REL	TD3B	LD 1	1	28	0	0	1	28	0	1K	P1
NV7A	23HEADING ERROR	NV2E	LS12	511.8	50				11.8	200		1
NV7A	24COURSE ERROR	NV2E	LS12	511.8	50				11.8	200		1
NV7B	1VISUAL MODE	TD1A	LD 1	5	5	0	0	1	5	0	500	P1
NV7B	2OFFSET MODE	TD1A	LD 1	5	5	0	0	1	5	0	500	P1
NV7B	3RADAR BOMB	TD1A	LD 1	5	5	0	0	1	5	0	500	P1
NV7B	4NAV BOMB	TD1A	LD 1	5	5	0	0	1	5	0	500	P1
NV7B	5TERRAIN FOLLOWING 1	TD1A	LD 1	5	5	0	0	1	5	0	500	P1
NV7B	6TERRAIN FOLLOWING 2	TD5CNV7A	LD 1	5	28	0	0	1	28	0	600	P1
NV7B	7NO MODE SELECTED	TD4A	LD 1	5	28	0	0	1	28	0	600	P1
NV7B	8ATTACK MODE SELECTED	NV7B	LD 1	5	28	0	0	1	28	0	600	P1
NV7B	9LANDING MODE	NV7BNV7ANV5A	LD 1	5	28	0	0	1	28	0	600	P1
NV8A	1REFERENCE SIGNAL	NV8B	HD									1
NV8A	2GROUNDSPEED	NV8B	HD									1
NV8A	3MEMORY FREEZE	NV8B	LD 1	5	5	0	0	1	5	0	500	P1
NV8A	4ANTENNA CAL CLOCK	NV8C	HW									1
NV8A	5ANTENNA CAL CLEAR	NV8C	LD 1	5	5	0	0	1	5	0	500	P1
NV8A	6ANTENNA SWITCHING	NV8C	HW									1
NV8A	7LOBE	NV8C	HD									1
NV8A	8DRIFT ANGLE ERROR	NV8C	LA12	5	5	0	0	DC	5	5K	0	DC1
NV8A	9MEMORY LIGHT	MS3A	LD 1	5	28	0	0	1	28	0	500	P1
NV8A	10DATA READY	TD1A	HW									1
NV8A	11GROUNDSPEED	TD1A	LW15	5	SERIAL DIGITAL	SERIAL DIGITAL						1
NV8A	12DRIFT ANGLE	TD1A	LW15	5	SERIAL DIGITAL	SERIAL DIGITAL						1
NV8A	13STATUS WORD	TD1A	LW 7	5	SERIAL DIGITAL	SERIAL DIGITAL						1
NV8B	1DRIFT ANGLE (MOD)	TD3B	LA12	5	30	0	-15	DC	30	6K	-15	DC1
NV8B	2STBY, UN, TEST	NV8A	LD 1	5	0	0	0	1	100	10K	10	A1
NV8B	3ON	NV8A	LD 1	5	0	0	0	1	100	10K	10	A1
NV8B	4TEST	NV8A	LD 1	5	0	0	0	1	100	10K	10	A1
NV8C	1DRIFT ANALOG	NV8B	LA12	5	13	0-6.5	DC	13	13K-6.5	DC1		
NV8C	2DRIFT ANGLE	NV8A	LA12	5	13	0-6.5	DC	13	13K-6.5	DC1		
NV8C	3VG CAL GATE	NV8A	HD									1
NV8C	4ANTENNA GOOD	NV8A	LD 1	5	5	0	0	1	5	0	500	P1
TD1A	1SCALE FACTOR	NV2A	LD 1	5	5	0	0	1	5	0	500	P1
TD1A	2AZIMUTH SLEW	NV2A	LD 1	5	5	0	0	1	5	0	500	P1
TD1A	3LATITUDE TO DEGREES	NV2A	LD 1	5	5	0	0	1	5	0	500	P1
TD1A	4COMPUTER FAIL	NV2A	LD 1	5	5	0	0	1	5	0	500	P1
TD1A	5COMPUTER CONTROL	NV2A	LD 1	5	5	0	0	1	5	0	500	P1
TD1A	6AUTOCAL IN PROGRESS	NV2A	LD 1	5	5	0	0	1	5	0	500	P1
TD1A	7AZIMUTH SLEW SENSE	NV2A	LD 1	5	5	0	0	1	5	0	500	P1



ID1A 8X SLEW	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
ID1A 9X SLEW SENSE	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
ID1A 10X SLEW	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
ID1A 11X SLEW SENSE	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
ID1A 12SERIAL CHANNEL CLOCK NV8ATDSC		MW 1
ID1A 13FLR SIN CURSOR AZ	ID5C	LW16 25SERIAL DIGITALSERIAL DIGITAL 1
ID1A 14FLR COS CURSOR AZ	ID5C	LW16 25SERIAL DIGITALSERIAL DIGITAL 1
ID1A 15FLR RANGE CURSOR	ID5C	LW16 25SERIAL DIGITALSERIAL DIGITAL 1
ID1A 16FLR ADDRESS OUT	ID5C	HW 1
ID1A 17FLR DATA READY OUT	ID5C	HW 1
ID1A 18ANTENNA POINTING AZ	ID5A	LS13 2511.8600 11.8 20 1
ID1A 19ANTENNA POINTING EL	ID5A	LS13 2511.8600 11.8 20 1
ID1A 20GROUND TRACK VEL	ID5C	LA12 25 18100 0 DC 18 10K 0 DC1
ID1A 21FLIGHT PATH ANGLE	ID5C	LA12 25 18100 0 DC 18 10K 0 DC1
ID1A 22COMPUTER FAIL	ID5C	LD 1 25 28 0 0 1 28 0 600 P1
ID1A 23CURSOR ENABLE	ID5E	LD 1 25 28 0 0 1 28 0 600 P1
ID1A 24ANTENNA SLAVE	ID5H	LD 1 25 28 0 0 1 28 0 600 P1
ID1A 25COMMAND TEST	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
ID1A 26BEARING TO DEST	NV7A	LS13 511.8600 0 111.8 20 1
ID1A 27GROUND TRACK VECTOR	NV7A	LS13 511.8600 0 211.8 20 1
ID1A 28RANGE TO DEST UNITS NV7ANV1A		LS 7 511.8600 0 111.8 20 1
ID1A 29RANGE TO DEST TENS NV7ANV1A		LS 7 511.8600 0 111.8 20 1
ID1A 30RANGE TO DEST HUNDRED NV7ANV1A		LS 7 511.8600 0 111.8 20 1
ID1A 311000 NMI	NV7A	LD 1 5 28 0 0 1 28 0 600 P1
ID1A 32STEERING ERROR	NV7A	LA12 5 5100-2.5 DC 5 1A-2.5 DC1
ID1A 33COMPUTER FAIL	NV7A	LD 1 5 5 0 0 1 5 0 500 P1
ID1A 34PITCH ANGLE	ID3H	LW13 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 35SIN OF ROLL	ID3B	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 36COS OF ROLL	ID3B	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 37BARO ALTITUDE	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 38FLI PATH MARKER AZ	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 39FLI PATH MARKER EL	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 40AIMING RETICLE AZ	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 41AIMING RETICLE EL	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 42SIN RFL ANGLE	ID3B	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 43COS RFL ANGLE	ID3B	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 44RFL CENTER	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 45SOLN CUE NO 1 AZ	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 46SOLN CUE NO 1 EL	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 47SOLN CUE NO 2 AZ	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 48SOLN CUE NO 2 EL	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 49PULL UP AZIMUTH	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 50PULL UP ELEVATION	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 51HEADING CUE AZIMUTH	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 52VERTICAL VELOCITY	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 53MAGNETIC HEADING	ID3E	LW13 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 54CONTROL WORD	ID3E	LW12 50SERIAL DIGITALSERIAL DIGITAL 1
ID1A 55HUD ADDRESS OUT	ID3E	HW 1
ID1A 56HUD DATA READY OUT	ID3E	HW 1
ID1A 57SERIAL CHANNEL CLK	ID3E	HW 1
ID1A 58BOMB RELEASE	ID4A	LD 1200 5 0 0 1 5 0 500 P1
ID1A 59FIRE READY	ID4A	LD 1200 5 0 0 1 5 0 500 P1
ID1A 60COMPUTER FAIL	ID4D	LD 1 5 28 0 0 1 28 0 600 P1
ID1A 61IMV NOT ALIGNED	ID4D	LD 1 5 28 0 0 1 28 0 600 P1
ID1A 62COMMAND TEST	CO6D	LD 1 5 28 0 0 1 28 0 600 P1
ID1A 63SHIFT CLOCK	ID1B	HW 1
ID1A 64NWDP DATA OUT	ID1B	LW16 5SERIAL DIGITALSERIAL DIGITAL 1
ID1A 65NWDP ADDRESS 1	ID1B	LD 1 5 5 0 0 1 5 0 500 P1
ID1A 66NWDP ADDRESS 2	ID1B	LD 1 5 5 0 0 1 5 0 500 P1
ID1A 67NWDP ADDRESS 3	ID1B	LD 1 5 5 0 0 1 5 0 500 P1



TD1A 68NWD ADDRESS 4	TD1B	LD 1 5 5 0 0 1 5 0 500 P1
TD1A 69NWD READ	TD1B	LD 1 10 5 0 0 1 5 0 500 P1
TD1A 70NWD WRITE	TD1B	LD 1 50 5 0 0 1 5 0 500 P1
TD1A 71CLOCK	TD1B	HW 1
TD1A 72POWER ON RESET	TD1B	LD 1 5 5 0 0 1 5 0 500 P1
TD1A 73TACAN ADDRESS OUT	NV6A	LD 1 5 5 0 0 1 5 0 500 P1
TD1A 74TACAN READ	NV6A	HW 1
TD1A 75SHIFT CLOCK	NV6A	HW 1
TD1A 76PMDS ADDRESS OUT	NV1A	HW 1
TD1A 77PMDS DATA READY OUT	NV1A	HW 1
TD1A 78PMDS COARSE X	NV1A	LW13 5SERIAL DIGITALSERIAL DIGITAL 1
TD1A 79PMDS FINE X	NV1A	LW13 5SERIAL DIGITALSERIAL DIGITAL 1
TD1A 80PMDS Y COMMAND	NV1A	LW13 5SERIAL DIGITALSERIAL DIGITAL 1
TD1A 81PMDS ORIENTATION	NV1A	LW13 5SERIAL DIGITALSERIAL DIGITAL 1
TD1A 82MAGNETIC HEADING	NV1A	LW13 5SERIAL DIGITALSERIAL DIGITAL 1
TD1A 83BEARING TO DEST	NV1A	LW13 5SERIAL DIGITALSERIAL DIGITAL 1
TD1A 84SERIAL CLOCK	NV1A	HW 1
TD1A 85SAMPLE CLOCK	NV2A	HW 1
TD1A 86COMPUTER RELEASE	TD4A	LD01100 5 0 0 1 5 0 500 P1
TD1A 87COMPUTER FIRE READY	TD4A	LD01 10 5 0 0 1 5 0 500 P1
TD1B 1RWDP DATA IN	TD1A	HW 1
TD1B 2SELF TEST	TD1A	LD 1 5 5 0 0 1 5 0 500 P1
TD1B 3RWDP INTERRUPT	TD1A	LD 1 50 5 0 0 1 5 0 500 P1
TD2A1 8GND	PR3A	PR 1
TD2A2 RF IN/OUT	TD2C	HA COAX 1
TD2A3 A+20VDC	TD2B	PR 1
TD2A3 DBLANKING OUTPUT	MS1A	AU CRITICAL DELAY 1
TD2A3 E-10VDC	TD2B	PR 1
TD2A3 F8ND	PR3A	PR 1
TD2B1 1DECODE CONTROL	TD2A	LA05 5 12100 -3 DC 12 4K -3 DC1
TD2B1 2ENCODE CONTROL	TD2A	LA03 5 16200 0 DC 16 2K 0 DC1
TD2B1 55V RETURN	PR3A	PR 1
TD2B1 72BDC OUT	TD2A	PR 1
TD2B1 8GND	PR3A	PR 1
TD2B1 11STANDBY	TD2A	LD01 5 20 0 0 1 20 0 10K P1
TD2C1 RF IN/OUT	TD2A	HA COAX 1
TD3A1 1HDD OFF/FAIL	TD3B	LD01 1 5 0 0 1 5 0 500 P1
TD3A1 2HDD OFF RET	MS3A	1
TD3A1 3THERMAL OVERLO	MS3A	LD01 1 28 0 0 1 28 0 600 P1
TD3A1 4HDD FAIL	MS3A	LD01 1 28 0 0 1 28 0 600 P1
TD3A1 8GND	PR3A	PR 1
TD3A1 17COMB DISCRETE	TD3B	LD01 5 28 0 0 1 28 0 600 P1
TD3A1 18ELEC UNIT CONT 1	TD3B	LD01 5 28 0 0 1 28 0 600 P1
TD3A1 23GND	PR3A	PR 1
TD3A1 24SIGNAL GND	TD3B	PR 1
TD3A1 25DEFL MON	TD3B	LD 1200 5 0 0 1 5 0 500 P1
TD3A1 32DECLUTTER DISCRETE	TD3B	LD01 5 28 0 0 1 28 0 600 P1
TD3A1 33SELF-TEST CMD	TD3B	LD01 5 28 0 0 1 28 0 600 P1
TD3A1 36BUSY SIGNAL	TD3B	HW CRITICAL 1
TD3A1 39BRIGHT-UP	TD3B	HA CRITICAL 1
TD3A1 44GND	PR3A	PR 1
TD3A1 45ELEC UNIT FAIL RET	TD3B	PR 1
TD3A1 51A/P SYM BIAS	TD3B	LA06 20 15100 0 DC 15 5K 0 DC1
TD3A1 56X DEFL RET	TD3B	PR 1
TD3A1 60A0A IND	TD3B	LA06 20 15100 0 DC 15 5K 0 DC1
TD3A1 61SIDE-SLIP IND	TD3B	LA06 20 15100 0 DC 15 5K 0 DC1
TD3A1 62ALT SCALE	TD3B	LA06 20 15100 0 DC 15 5K 0 DC1
TD3A1 63HEADING IND	TD3B	LA06 20 15100 0 DC 15 5K 0 DC1
TD3A1 64VER1 VEL IND	TD3B	LA06 20 15100 0 DC 15 5K 0 DC1
TD3A1 65AIR SPEED IND	TD3B	LA06 5 15100 0 DC 15 5K 0 DC1

TD3A1712 POS COMB DISCR	TD3B	LD01 20 28 0 0 1 28 0 600 P1
TD3A1741DEFL RETURN	TD3B	PR 1
TD3A176115VAC PHASE A	TD3C	PR 1
TD3A177115VAC PHASE B	TD3C	PR 1
TD3A178115VAC PHASE C	TD3C	PR 1
TD3B114GND	PR3A	PR 1
TD3B131GND	PR3A	PR 1
TD3B141GND	PR3A	PR 1
TD3B147SIGNAL GND	PR3A	PR 1
TD3B151VERT BEAM SENSE	PR3A	PR 1
TD3B2 4"15V SYMBOL BIAS	TD3A	PR 1
TD3B2 9THERMAL OVERLOAD	TD3A	LD01 1 5 0 0 1 5 0 500 P1
TD3B215-15VDC SYMBOL BIAS	TD3A	PR 1
TD3B216HORIZ FLT PATH ANG	TD3A	LA06 20 15100 0 DC 15 5K 0 DC1
TD3B217A DEFLECTION	TD3A	HA CRITICAL 1
TD3B22170VAC PHASE C	TD3A	PR 1
TD3B22270VAC N	TD3A	PR 1
TD3B232BUSY SIGNAL REF	TD3A	HD CRITICAL 1
TD3B234GND	PR3A	PR 1
TD3B238GND	PR3A	PR 1
TD3B24040VAC PHASE A	TD3A	PR 1
TD3B24140VAC PHASE B	TD3A	PR 1
TD3B242GND	PR3A	PR 1
TD3B243"15VDC EXCITATION	NV11	PR 1
TD3B247DEFLECTION MON RET	TD3A	PR 1
TD3B249ELEC UNIT FAIL	TD3A	LD01 1 5 0 0 1 5 0 500 P1
TD3B253BRIGHT-UP	TD3A	HA CRITICAL 1
TD3B2571-DEFLECTION	TD3A	HA CRITICAL 1
TD4A 1SALVO JETTISON	CM2B	LD 1 5 28 0 0 1 28 0 600 P1
TD4A 19STA 4 115 VAC PH A	TD4H	LD 1 5 5500 0 85 5 0 500 P1
TD4A 20STA 1 115 VAC PH A	TD4E	LD 1 5 5500 0 85 5 0 500 P1
TD4A 21STA 1 115 VAC PH B	TD4E	LD 1 5 5500 0 85 5 0 500 P1
TD4A 22STA 1 PH C + BP FIL	TD4E	LD 1 5 5500 0 85 5 0 500 P1
TD4A 23STA 2 115 VAC PH A	TD4F	LD 1 5 5500 0 85 5 0 500 P1
TD4A 24STA 2 115 VAC PH B	TD4F	LD 1 5 5500 0 85 5 0 500 P1
TD4A 25STA 2 PH C + BP FIL	TD4F	LD 1 5 5500 0 85 5 0 500 P1
TD4A 46STA 5 115 VAC PH A	TD4I	LD 1 5 5500 0 85 5 0 500 P1
TD4A 47STA 3 115 VAC PH A	TD4G	LD 1 5 5500 0 85 5 0 500 P1
TD4A 48STA 3 115 VAC PH B	TD4G	LD 1 5 5500 0 85 5 0 500 P1
TD4A 49STA 3 PH C + BP FIL	TD4G	LD 1 5 5500 0 85 5 0 500 P1
TD4A 50STA 6 115 VAC PH A	TD4J	LD 1 5 5500 0 85 5 0 500 P1
TD4A 51STA 6 115 VAC PH B	TD4J	LD 1 5 5500 0 85 5 0 500 P1
TD4A 52STA 6 PH C + BP FIL	TD4J	LD 1 5 5500 0 85 5 0 500 P1
TD4A 74STA 7 115 VAC PH A	TD4K	LD 1 5 5500 0 85 5 0 500 P1
TD4A 75STA 7 115 VAC PH B	TD4K	LD 1 5 5500 0 85 5 0 500 P1
TD4A 76STA 7 PH C + BP FIL	TD4K	LD 1 5 5500 0 85 5 0 500 P1
TD4A 77STA 8 115 VAC PH A	TD4L	LD 1 5 5500 0 85 5 0 500 P1
TD4A 78STA 8 115 VAC PH B	TD4L	LD 1 5 5500 0 85 5 0 500 P1
TD4A 79STA 8 PH C + BP FIL	TD4L	LD 1 5 5500 0 85 5 0 500 P1
TD4A107ENGINE ORDNANCE	EL4F	LD 1 5 5500 0 85 5 0 500 P1
TD4A120ARW-77 STANDBY PWR	TD4N	LD 1 5 5500 0 85 5 0 500 P1
TD4A121ARW-77 XMITT TURN-ON	TD4N	LD 1 5 5500 0 85 5 0 500 P1
TD4A124GUN RATE HYD DRIVE	TD4O	LD 1 5 5500 0 85 5 0 500 P1
TD4A125GAS PURGE	TD4O	LD 1 5 5500 0 85 5 0 500 P1
TD4A126CAMERA CONTROL	TD4P	LD 1 5 5500 0 85 5 0 500 P1
TD4A127INTERNAL GUNS FIRE	TD4O	LD 1 5 5500 0 85 5 0 500 P1
TD4A128STA 1 EKR AWL	TD4E	LD01 5 5500 0 85 5 0 500 P1
TD4A129STA 2 RKT SEL	TD4F	LD01 5 5500 0 85 5 0 500 P1
TD4A130STA 3 RKT SEL	TD4G	LD01 5 5500 0 85 5 0 500 P1
TD4A131STA 6 RKT SEL	TD4I	LD01 5 5500 0 85 5 0 500 P1



TD4A132STA	7 RKT SEL	TD4J	LD01	5	5500	0 85	5	0 500	P1
TD4A133STA	8 RKT SEL	TD4K	LD01	5	5500	0 85	5	0 500	P1
TD4A136STA	5 FIRING	TD4I	LD01	5	5500	0 85	5	0 500	P1
TD4A137STA	5 JETTISON	TD4I	LD01	20	5500	0 85	5	0 500	P1
TD4A138STA	4 FIRING	TD4H	LD01	5	5500	0 85	5	0 500	P1
TD4A139STA	4 JETTISON	TD4H	LD01	20	5500	0 85	5	0 500	P1
TD4A140STA	5 28VDC POWER	TD4I	LD01	5	5500	0 85	5	0 500	P1
TD4A141STA	1 WE CG + MA ARM	TD4E	LD01	5	5500	0 85	5	0 500	P1
TD4A142STA	2 WE CG + MA ARM	TD4F	LD01	5	5500	0 85	5	0 500	P1
TD4A143STA	3 WE CG + MA ARM	TD4G	LD01	5	5500	0 85	5	0 500	P1
TD4A144STA	6 WE CG + MA ARM	TD4J	LD01	5	5500	0 85	5	0 500	P1
TD4A145STA	7 WE CG + MA ARM	TD4K	LD01	5	5500	0 85	5	0 500	P1
TD4A146STA	8 WE CG + MA ARM	TD4L	LD01	5	5500	0 85	5	0 500	P1
TD4A147STA	8 MAU-12 JETT	TD4L	LD01	20	5500	0 85	5	0 500	P1
TD4A148STA	8 BP ENG FIRING	TD4L	LD01	5	5500	0 85	5	0 500	P1
TD4A149STA	7 BP FIRE + REL	TD4K	LD01	5	5500	0 85	5	0 500	P1
TD4A150STA	7 BP INIT + DISC	TD4K	LD01	5	5500	0 85	5	0 500	P1
TD4A151STA	6 BP ENG FIRING	TD4J	LD01	5	5500	0 85	5	0 500	P1
TD4A152STA	6 BP INIT + DISC	TD4J	LD01	5	5500	0 85	5	0 500	P1
TD4A154STA	4 28VDC POWER	TD4H	LD01	5	5500	0 85	5	0 500	P1
TD4A155STA	1 MAU-12 + N ARM	TD4E	LD01	5	5500	0 85	5	0 500	P1
TD4A156STA	2 MAU-12 + N ARM	TD4F	LD01	5	5500	0 85	5	0 500	P1
TD4A157STA	3 MAU-12 + N ARM	TD4G	LD01	5	5500	0 85	5	0 500	P1
TD4A158STA	6 MAU-12 + N ARM	TD4J	LD01	5	5500	0 85	5	0 500	P1
TD4A159STA	7 MAU-12 + N ARM	TD4K	LD01	5	5500	0 85	5	0 500	P1
TD4A160STA	8 MAU-12 + N ARM	TD4L	LD01	5	5500	0 85	5	0 500	P1
TD4A161STA	8 MAU-12 FIRING	TD4L	LD01	5	5500	0 85	5	0 500	P1
TD4A162STA	8 BP IN + DISC	TD4L	LD01	5	5500	0 85	5	0 500	P1
TD4A163STA	7 MAU-12 JETT	TD4K	LD01	20	5500	0 85	5	0 500	P1
TD4A164STA	7 MAU-12 FIRING	TD4K	LD01	5	5500	0 85	5	0 500	P1
TD4A165STA	6 MAU-12 FIRING	TD4J	LD01	5	5500	0 85	5	0 500	P1
TD4A166STA	6 MAU-12 JETT	TD4J	LD01	20	5500	0 85	5	0 500	P1
TD4A167STA	4 MASTER ARM	TD4H	LD01	5	5500	0 85	5	0 500	P1
TD4A168STA	1 MAU-12 T ARM	TD4E	LD01	5	5500	0 85	5	0 500	P1
TD4A169STA	2 MAU-12 T ARM	TD4F	LD01	5	5500	0 85	5	0 500	P1
TD4A170STA	3 MAU-12 T ARM	TD4G	LD01	5	5500	0 85	5	0 500	P1
TD4A171STA	6 MAU-12 T ARM	TD4J	LD01	5	5500	0 85	5	0 500	P1
TD4A172STA	7 MAU-12 T ARM	TD4K	LD01	5	5500	0 85	5	0 500	P1
TD4A173STA	8 MAU-12 T ARM	TD4L	LD01	5	5500	0 85	5	0 500	P1
TD4A177STA	2 BP ENG FIRING	TD4F	LD01	5	5500	0 85	5	0 500	P1
TD4A179STA	3 MAU-12 FIRING	TD4G	LD01	5	5500	0 85	5	0 500	P1
TD4A188STA	1 MAU-12 FIRING	TD4E	LD01	5	5500	0 85	5	0 500	P1
TD4A189STA	1 BP INIT + DISC	TD4E	LD01	5	5500	0 85	5	0 500	P1
TD4A190STA	2 MAU-12 FIRING	TD4F	LD01	5	5500	0 85	5	0 500	P1
TD4A191STA	2 BP INIT + DISC	TD4F	LD01	5	5500	0 85	5	0 500	P1
TD4A192STA	3 BP INIT + DISC	TD4G	LD01	5	5500	0 85	5	0 500	P1
TD4A194STA	5 MASTER ARM	TD4I	LD01	5	5 0	0 1	5	0 25	P1
TD4A201STA	1 MAU-12 JETT	TD4E	LD01	20	5500	0 85	5	0 500	P1
TD4A202STA	1 BP ENG FIRING	TD4E	LD01	5	5500	0 85	5	0 500	P1
TD4A203STA	2 MAU-12 JETT	TD4F	LD01	20	5500	0 85	5	0 500	P1
TD4A204STA	3 MAU-12 JETT	TD4G	LD01	20	5500	0 85	5	0 500	P1
TD4A205STA	3 BP ENG FIRING	TD4G	LD01	5	5500	0 85	5	0 500	P1
TD4A553	RETARDED ADVISORY	LT	LD01	5	25 0	0 1	100 10K	80	A1
TD4A554STA	4 RDY,STORE PRE	TD4D	LD01	5	25 0	0 1	100 10K	80	A1
TD4A555STA	5 RDY,STORE PRE	TD4D	LD01	5	25 0	0 1	100 10K	80	A1
TD4A556	GUN VENT BYPASS VAL	TD4D	LD01	5	25 0	0 1	100 10K	80	A1
TD4A561	INAPALM ADVISORY	LT	LD01	5	25 0	0 1	100 10K	80	A1
TD4A567	BOMB MULTIPLE ADV	LT	LD01	5	25 0	0 1	100 10K	80	A1
TD4A568	BOMB SINGLE ADV	LT	LD01	5	25 0	0 1	100 10K	80	A1
TD4A569	GUN/GUNPOD ADV	LT	LD01	5	25 0	0 1	100 10K	80	A1



TD4A570ROCKETS ADVISORY LT TD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A571MECH FUZE ADV LT TD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A572SIDEWINDER ADV LT TD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A573DISPENSER ADV LT TD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A580FLARES ADVISORY LT TD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A581SPRAY TANK ADV LT TD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A583BULLPUP ADVISORY LT TD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A584WALLEYE ADVISORY LT TD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A585STA 1 RDY,STORE PRESTD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A592STA 2 RDY,STORE PRESTD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A593STA 3 RDY,STORE PRESTD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A594STA 6 RDY,STORE PRESTD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A595STA 7 RDY,STORE PRESTD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A596STA 8 RDY,STORE PRESTD4D	LD01	5	25	0	0	1	100	10K	80	A1
TD4A606RADAR DISP INTERRUPTID4D	LD01	5	5500	0	85	5	0	500	P1	
TD4A612WEAPON TYPE UNITS 1 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A613WEAPON TYPE UNITS 2 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A614WEAPON TYPE UNITS 4 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A615WEAPON TYPE UNITS 8 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A616MULT LOADING IND ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A622WEAPON TYPE TENS 1 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A623WEAPON TYPE TENS 2 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A624WEAPON TYPE TENS 4 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A625WEAPON TYPE TENS 8 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A626GUNS SELECTED ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A627RAIN DISP BOMBS SELTD1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A634COMPUTE STATION 1 ID1A	LD01	10	5	0	0	1	5	0	500	P1
TD4A635COMPUTE STATION 2 ID1A	LD01	10	5	0	0	1	5	0	500	P1
TD4A636COMPUTE STATION 3 ID1A	LD01	10	5	0	0	1	5	0	500	P1
TD4A637COMPUTE STATION 6 ID1A	LD01	10	5	0	0	1	5	0	500	P1
TD4A638COMPUTE STATION 7 ID1A	LD01	10	5	0	0	1	5	0	500	P1
TD4A639COMPUTE STATION 8 ID1A	LD01	10	5	0	0	1	5	0	500	P1
TD4A640COMPUTER SHIELD GND ID1APR3A	GROUND									
TD4A641COMPUTER REL ENABLE ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4A654CHASSIS GND (SPARE) PR3A	GROUND									
TD4A709AUDIO C07A	AA0410K400 TO 2000 HZ									
TD4A710AUDIO COMMON C07A	400 TO 2000 HZ									
TD4B 1DESTRUCT ID4ETD4L	LD	1	5	28	0	0	1	28	0	600
TD4B 2RELEASE MODE PAIRS ID4A	LD01	5	28	0	0	1	28	0	600	P1
TD4B 8INTERVAL SEL TENS 2 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 9INTERVAL SEL TENS 1 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 10MODE SELECT SIGNAL ID4A	LD01	5	28	0	0	1	28	0	600	P1
TD4B 18RELEASE MODE SIMUL ID4A	LD01	5	28	0	0	1	28	0	600	P1
TD4B 19RELEASE MODE PAIRS ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 20QUANTITY SEL TENS 6 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 21INTERVAL SEL HUND 8 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 22QUANTITY SEL TENS 4 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 23QUANTITY SEL UNITS 8 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 35QUANTITY SELECT 0 TD4A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 36QUANTITY SEL UNITS 2 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 37QUANTITY COMMON ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 38INTERVAL SEL HUND 2 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 39INTERVAL SEL HUND 1 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 40INTERVAL COMMON ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 41INTERVAL SEL TENS 8 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 42QUANTITY SEL TENS 2 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 43QUANTITY SEL TENS 1 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 58QUANTITY SEL UNITS 4 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 59QUANTITY SEL UNITS 1 ID1A	LD01	5	5	0	0	1	5	0	500	P1
TD4B 60INTERVAL SEL TENS 4 ID1A	LD01	5	5	0	0	1	5	0	500	P1

TD4B 01INTERVAL SEL HUNDR 4TD1A	LD01 5 5 0 0 1 5 0 500 P1
TD4C 34SALVO JETTISON TD4A	LD01 20 28 0 0 1 28 0 600 P1
TD4C 01FUSELAGE GUN SEL HI TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C 03FUSELAGE GUN SEL LO TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C142STA 1 SELECT SWITCH TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C144STA 1 SEL JETTISON TD4A	LD01 20 28 0 0 1 28 0 600 P1
TD4C145STA 8 SELECT SWITCH TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C154STA 6 SEL JETTISON TD4A	LD01 20 28 0 0 1 28 0 600 P1
TD4C155STA 2 SELECT SWITCH TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C156STA 2 SEL JETTISON TD4A	LD01 20 28 0 0 1 28 0 600 P1
TD4C157STA 7 SELECT SWITCH TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C159STA 7 SEL JETTISON TD4A	LD01 20 28 0 0 1 28 0 600 P1
TD4C160STA 3 SELECT SWITCH TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C168STA 3 SEL JETTISON TD4A	LD01 20 28 0 0 1 28 0 600 P1
TD4C169STA 6 SELECT SWITCH TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C170STA 6 SEL JETTISON TD4A	LD01 20 28 0 0 1 28 0 600 P1
TD4C171FUSELAGE STA SEL 1 TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C172FUSELAGE STA SEL 2 TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C173STA 4+5 SEL JETTISON TD4A	LD01 20 28 0 0 1 28 0 600 P1
TD4C181STA 4+5 SEL JETTISON TD4A	LD01 20 28 0 0 1 28 0 600 P1
TD4C182MASTER ARMAMENT SW TD4AM85ATD4P	LD01 5 28 0 0 1 28 0 600 P1
TD4C184AUX JETTISON SWITCH TD4A	LD01 20 28 0 0 1 28 0 600 P1
TD4C186SELECT JETTISON TD4A	LD01 20 28 0 0 1 28 0 600 P1
TD4C199FUZE SW OUTPUT 2 TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C200FUZE SW OUTPUT 1 TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4E 20STA 1 MULT LOADING TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4E 26STA 1 WALLEYE READY TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4E 37STA 1 WE FIL POS 1+2TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4E 38STA 1 GND INTERLOCK TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4E 45STA 1 SPRAY TANK ROYTD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4E 47STA 1 BULLPUP BATT VID4A	LD01 5 5500 0 85 5 0 500 P1
TD4E 52STA 1 WALLEYE VIDEO TD4A	HA 0 TO 8.25 MHZ
TD4EF 1STA 1 FUEL QUANTITY FM2B	LA13 5 10 0 10 AC 10 10K 10 AC1
TD4F GSTA 2 GND INTERLOCK TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4F VSTA 2 WALLEYE VIDEO TD4A	HA 0 TO 8.25 MHZ
TD4F YSTA 2 MULT LOADING TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4F ZSTA 2 WE FIL POS 2 TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4F SASTA 2 WALLEYE READY TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4F SNSTA 2 BULLPUP BATT VID4A	LD01 5 5500 0 85 5 0 500 P1
TD4G GSTA 3 GND INTERLOCK TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4G VSTA 3 WALLEYE VIDEO TD4A	HA 0 TO 8.25 MHZ
TD4G YSTA 3 MULT LOADING TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4G ZSTA 3 WE FIL POS 2 TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4G SASTA 3 WALLEYE READY TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4G SNSTA 3 BULLPUP BATT VID4A	LD01 5 5500 0 85 5 0 500 P1
TD4GF 1STA 3 FUEL QUANTITY FM2B	LA13 5 10 0 10 AC 10 10K 10 AC1
TD4H 4STA 4 AUDIO TD4A	AA0410K400 TO 2000 HZ
TD4H 5STA 4 GND INTERLOCK TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4I 4STA 5 AUDIO TD4A	AA0410K400 TO 2000 HZ
TD4I 5STA 5 GND INTERLOCK TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4J GSTA 6 GND INTERLOCK TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4J VSTA 6 WALLEYE VIDEO TD4A	HA 0 TO 8.25 MHZ
TD4J YSTA 6 MULT LOADING TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4J ZSTA 6 WE FIL POS 2 TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4J SASTA 6 WALLEYE READY TD4A	LD01 5 25 0 0 1 100 10K 80 A1
TD4J SNSTA 6 BULLPUP BATT VID4A	LD01005 5500 0 85 5 0 500 P1
TD4JF 1STA 6 FUEL QUANTITY FM2B	LA13 5 10 0 10 AC 10 10K 10 AC1
TD4K GSTA 7 GND INTERLOCK TD4A	LD01005 25 0 0 1 100 10K 80 A1
TD4K VSTA 7 WALLEYE VIDEO TD4A	HA 0 TO 8.25 MHZ
TD4K YSTA 7 MULT LOADING TD4A	LD01005 25 0 0 1 100 10K 80 A1



TD4K ZSTA 7 WE FIL POS 2	TD4A	LD01005	25	0	0	1	100	10K	80	A1
TD4K SASTA 7 WALLEYE READY	TD4A	LD01005	25	0	0	1	100	10K	80	A1
TD4K SNSTA 7 BULLPUP HAIT	VID4A	LD01005	5500	0	85	5	0	500	P1	
TD4L 20STA 8 MULT LOADING	TD4A	LD01005	25	0	0	1	100	10K	80	A1
TD4L 26STA 8 WALLEYE READY	TD4A	LD01005	25	0	0	1	100	10K	80	A1
TD4L 37STA 8 WE FIL POS 1+2	TD4A	LD01005	25	0	0	1	100	10K	80	A1
TD4L 38STA 8 GND INTERLOCK	TD4A	LD01005	25	0	0	1	100	10K	80	A1
TD4L 45STA 8 SPRAY TANK PDY	TD4A	LD01005	28	0	0	1	28	0	600	P1
TD4L 47STA 8 BULLPUP HAIT	VID4A	LD01005	5500	0	85	5	0	500	P1	
TD4L 52STA 8 WALLEYE VIDEO	TD4A	HA	0	TO	8.25	MHZ				
TD4LF 1STA 8 FUEL QUANTITY FM2R		LA13	5	10	0	10	AC	10	10K	10 AC1
TD4M JTRIGGER SWITCH OUT	TD4A	LD01100	28	0	0	1	28	0	600	P1
TD4M MTRIGGER SWITCH OUT	TD4A	LD01100	28	0	0	1	28	0	600	P1
TD4M MDESIGNATE SWITCH	TD4AID1A	LD01100	28	0	0	1	28	0	600	P1
TD4M TARMAMENT RELEASE SW	TD4A	LD01100	28	0	0	1	28	0	600	P1
TD4K TARMAMENT SAFETY DIS	TD4AID4PMS5A	LD01	10	28	0	0	1	28	0	600 P1
TD4K 2ARMAMENT SAFETY DIS	TD4A	LD01	10	28	0	0	1	28	0	600 P1
TD5A 1AGR BORESIGHT (GML)	TD5B	LD	1	5	28	0	0	1	28	0 600 P1
TD5A 2BEACON TEST	TD5B	LD	1	5	28	0	0	1	28	0 600 P1
TD5A 3AGR MODE	TD5D	LD	1	5	28	0	0	1	28	0 600 P1
TD5A 4COS AZ POSITION	TD5C	AA10900	5	5K	0	AC	5	1	0	AC1
TD5A 5SIN AZ POSITION	TD5C	AA10900	5	5K	0	AC	5	1	0	AC1
TD5A 6SCAN ANALOG (DEM0D)	TD5C	LA10	30	14100	0	DC	14	3K	0	DC1
TD5A 7SIMULATION COMMAND	TD5C	LD	1	5	28	0	0	1	28	0 600 P1
TD5A 8CLIMB ANGLE SIMULATE	TD5C	LD	1	5	28	0	0	1	28	0 600 P1
TD5A 9FAULT ISOLATION	TD5C	LD	1	5	28	0	0	1	28	0 600 P1
TD5A 10PREMASTER TRIGGER	TD5C	MD								1
TD5A 11BIPOLAR VIDEO	TD5C	HA								1
TD5A 12SUMVIDEO	TD5C	HA								1
TD5A 13MASTER TRIGGER	TD5C	HD								1
TD5A 14REPEATER BIT	TD5C	LD	1	10	15	0	0	1	15	0 600 P1
TD5A 15AZ + EL GEN BIT	TD5C	LD	1	10	15	0	0	1	15	0 600 P1
TD5A 16POSITION ANALOG	TD5C	LA	4	5	3.6100	0	DC	3.6	5K	0 DC1
TD5A 17COMPUTER RCVR BIT	TD5C	LD	1	10	18	0	0	1	18	0 600 P1
TD5A 18AFC BIT	TD5C	LD	1	10	18	0	0	1	18	0 600 P1
TD5A 19XMIR BIT	TD5C	LD	1	10	18	0	0	1	18	0 600 P1
TD5A 20ANTIENNA SCAN BIT	TD5C	LD	1	10	18	0	0	1	18	0 600 P1
TD5A 21TEST PULSE BIT	TD5C	LD	1	10	18	0	0	1	18	0 600 P1
TD5A 22TURN RATE SAFE	TD5C	LD	1	10	28	0	0	1	28	0 600 P1
TD5A 23DITHER	TD5C	AA								1
TD5A 24BEACON BIT	TD5C	LD	1	10	2	0	0	1	2	0 200 P1
TD5A 25END OF SCAN	TD5C	MD								1
TD5A 26ENV0 BIT	TD5C	LD	1	10	15	0	0	1	15	0 600 P1
TD5A 27OFF/LOAD	TD5F	LD	1	10	28	0	0	1	28	0 600 P1
TD5A 28SELECT VIDEO	TD5D	LD	1	10	28	0	0	1	28	0 600 P1
TD5A 29TEMPLATE VIDEO	TD5D	RD								1
TD5A 30CLIMB DIVE COMMAND	TD5D	LA10	10	4	0	0	DC	4	4K	0 DC1
TD5A 31EL MANEUVER COMMAND	TD5ANV2F	LA10	20	4	0	0	DC	4	5K	0 DC1
TD5B 1OPERATE	TD5A	LD	1	5	28	0	0	1	28	0 600 P1
TD5B 2TF MODE	TD5CTD5A	LD	1	5	28	0	0	1	28	0 600 P1
TD5B 3LOAD	TD5C	LD	1	5	28	0	0	1	28	0 600 P1
TD5B 4TA MODE	TD5C	LD	1	5	28	0	0	1	28	0 600 P1
TD5B 5CSTA MODE	TD5C	LD	1	5	28	0	0	1	28	0 600 P1
TD5B 6CURSOR ENABLE GP	TD5C	LD	1	5	28	0	0	1	28	0 600 P1
TD5B 7CSGP MODE	TD5C	LD	1	5	28	0	0	1	28	0 600 P1
TD5B 8TF OPERATE	TD5E	LD	1	5	28	0	0	1	28	0 600 P1
TD5B 9GMP/GMS MODE	TD5C	LD	1	5	28	0	0	1	28	0 600 P1
TD5B 10MODE OVERRIDE	TD5C	LD	1	5	28	0	0	1	28	0 600 P1
TD5B 11GMS MODE	TD5C	LD	1	5	28	0	0	1	28	0 600 P1
TD5B 12AGR MODE	TD5F	LD	1	5	28	0	0	1	28	0 600 P1

TD5B 13BEACON MODE	TD5C	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 14AGN DISPLAY	TD5C	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 15AGN (SLAVE) (GND)	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 16STANDBY MODE	TD5F	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 17CIRC POLARIZATION	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 18COMPUTER FAIL/SAFE	TD5C	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 19FREQUENCY TUNING	TD5A	LA 4 5 3.6100 0 AC 3.6 5K 0 AC1
TD5B 20AZ BURESIGHT RELAY	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 21MODE ERASE	TD5C	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 22TILT CONTROL	TD5A	LA10 5 20100 0 AC 20 4K 0 AC1
TD5C 15, 10 RANGE	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 220, 40, 80 RANGE	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 320, 40, 80 BEACON RNG	TD5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 4INDICATOR BLANKING	TD5D	AD 1
TD5C 5LOAD	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 6BEACON MODE	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 7RECEIVER BLANKING	TD5A	MD 1
TD5C 85 RANGE	TD5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 910 RANGE	TD5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 1020 RANGE	TD5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 1140 RANGE	TD5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 1280 RANGE	TD5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 13GMS/LOAD	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 14MANUAL LOAD SELECT	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 15CURSOR SIN ANALOG	TD5D	LA10 25 4.5100 0 DC 4.5 5K 0 DC1
TD5C 16TA	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 17CSTA	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 18CSGMP	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 19GMP/GMS	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 20GMS	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 21BEACON	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 22AGN	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 23IF	TD5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 24FAIL	TD5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 25PMT LIMITED	TD5D	MD 1
TD5C 26DUNK PULSE	TD5D	MD 1
TD5C 27VERTICAL SWEEP	TD5D	MD 1
TD5C 28HORIZONTAL SWEEP	TD5D	MD 1
TD5C 29CLAMP GATE	TD5D	MD 1
TD5C 30TV VIDEO	TD5D	MD 1
TD5C 31CURSOR GATE	TD5D	MD 1
TD5C 32UNBLANK GATE	TD5D	MD 1
TD5C 33ERASE PULSE	TD5D	MD 1
TD5C 34TV HORIZONTAL SYNC	TD5D	MD 1
TD5C 35CURSOR VIDEO	TD5D	MD 1
TD5C 36CLOCK PULSE	TD5E	MD 1
TD5C 37MAX RANGE GATE	TD5E	MD 1
TD5C 38FAIL OVERRIDE	TD5A	LD 1 10 28 0 0 1 28 0 600 P1
TD5C 39INTERUPT	TD5A	LD 1 10 28 0 0 1 28 0 600 P1
TD5C 40TAN RATE	TD5A	LA13 50 50100 0 AC 50 5K 0 AC1
TD5C 41RADAR ALTITUDE	TD5A	LA12 25 25100 0 DC 25 5K 0 DC1
TD5C 42VELOCITY	TD5A	LA12 25 1 100 0 DC 1 5K 0 DC1
TD5C 43CLIMB ANGLE	TD5A	LA12 25 18100 0 DC 18 5K 0 DC1
TD5C 44COMPUTER UNBLANK	TD5A	MD 1
TD5C 45ANT/RCVR FAIL/SAFE	TD5F	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 46TEST PULSE FAIL/SAFE	TD5F	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 47COMPUTER FAIL/SAFE	TD5F	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 48XMITR FAIL/SAFE	TD5F	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 49AIRPLANE FAIL/SAFE	TD5F	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 50BIT FAIL/SAFE	TD5F	LD 1 10 5 0 0 1 5 0 500 P1



AFAL-TR-76-120

TD5C 51SWEEP GEN FAIL/SAFE	TD5F	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 52RADAR RANGE	TD1A	LD16 50SERIAL DIGITALSERIAL DIGITAL 1
TD5C 53ADDRESS	TD1A	LD 1 50SERIAL DIGITALSERIAL DIGITAL 1
TD5C 54DATA READY	TD1A	MD 1
TD5C 55SET RANGE READ OUT	TD3A	LD 1 10 28 0 0 1 28 0 600 P1
TD5D 1STORAGE CONTROL	TD5C	LA 7 5 -20 0 0 DC -20 20K 0 DC1
TD5D 2TV SELECT GRD	TD5C	LD 1 5 28 0 0 1 28 0 600 P1
TD5D 3MANUAL GAIN	TD5A	LA10 5 18 0 0 DC 18 10K 0 DC1
TD5E 1MANUAL CURSOR	TD5B	LD 1 5 28 0 0 1 28 0 600 P1
TD5E 2MANUAL RANGE STROBE	TD5C	MD 1
TD5E 3200 PI LCEAKANCE	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5E 4SET CLEARANCE	TD5A	LA12 5 25 0 0 DC 25 10K 0 DC1
TD5E 5CLIMB DIVE CMD DELAY	TD5A	LD 1 10 4 0 0 1 4 0 4K P1
TD5E 6NMI	TD5C	LD 1 5 5 0 0 1 5 0 500 P1
TD5F 1FAIL/SAFE TO LAMP DR	TD5C	LD 1 10 5 0 0 1 5 0 500 P1
TD5F 2MODE OVERRIDE + TA	TD5C	LD 1 5 5 0 0 1 5 0 500 P1
TD5F 3LOAD	TD5C	LD 1 10 28 0 0 1 28 0 600 P1
TD5F 4MODE OVERRIDE + CSTAT	TD5C	LD 1 10 28 0 0 1 28 0 600 P1
TD5F 5MODE OVERRIDE ANI/RCT	TD5C	LD 1 10 28 0 0 1 28 0 600 P1
TD5F 6TURN RATE SIMULATE	TD5C	LD 1 10 28 0 0 1 28 0 600 P1
TD5F 7FLIGHT CMD WARNING	TD3ANV2F	LD 1 10 .3 0 0 1 .3 0 300 P1
TD5F 8SCAN INTERRUPT	TD5A	LD 1 10 15 0 0 1 15 0 600 P1
Z		

### 3. SYSTEM "C" LISTING



SYSC														
CM1B	1	68	CM1C	LD	1	5	0	0	0	1	100	10K	50	A1
CM1B	2	69	CM1C	LD	1	5	0	0	0	1	100	10K	50	A1
CM1B	3	70	CM1C	LD	1	5	0	0	0	1	100	10K	50	A1
CM1B	4	8	COMP2	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	1	1	CM1F	LD	1	5	28	0	0	1	28	0	600	P1
CM1C	2	2	CM1F	LD	1	5	28	0	0	1	28	0	600	P1
CM1C	3	3	CM1F	LD	1	5	28	0	0	1	28	0	600	P1
CM1C	4	4	CM1F	HA										1
CM1C	5	7	CM1F	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	6	8	CM1G	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	7	10	CM1E	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	8	11	CM1H	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	9	12	CM1A	LD	1	5	0	0	0	1	100	10K	50	A1
CM1C	10	13	CM1A	LD	1	5	0	0	0	1	100	10K	50	A1
CM1C	11	26	CM1E	HA										1
CM1C	12	27	CM1E	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	13	28	CM1B	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	13	28	COMP2	LD	1	5	0	0	0	1	100	10K	40	A2
CM1C	14	29	CM1B	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	14	29	COMP2	LD	1	5	0	0	0	1	100	10K	40	A2
CM1C	15	30	CM1B	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	15	30	COMP2	LD	1	5	0	0	0	1	100	10K	40	A2
CM1C	16	31	CM1B	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	16	31	COMP2	LD	1	5	0	0	0	1	100	10K	40	A2
CM1C	17	32	CM1H	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	17	32	COMP2	LD	1	5	0	0	0	1	100	10K	40	A2
CM1C	18	33	COMP2	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	19	34	COMP2	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	20	35	COMP2	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	21	36	COMP2	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	22	37	COMP2	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	23	38	CM1B	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	23	38	COMP2	LD	1	5	0	0	0	1	100	10K	40	A2
CM1C	24	39	COMP2	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	25	40	CM1A	HA										1
CM1C	26	41	CM1A	HA										1
CM1C	27	42	CM1A	HA										1
CM1C	28	43	CM1A	HA										1
CM1C	29	44	CM1A	HA										1
CM1C	30	45	COMP2	AA										1
CM1C	31	52	CM1E	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	32	53	CM1E	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	33	54	CM1H	HA										1
CM1C	34	55	CM1H	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	35	56	CM1H	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	36	57	CM1H	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	37	58	CM1G	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	38	59	CM1G	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	39	60	CM1G	LD	1	5	6	0	0	1	6	0	600	P1
CM1C	40	61	CM1G	HA										1
CM1C	41	77	CM1A	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	42	78	CM1A	LD	1	5	0	0	0	1	100	10K	40	A1
CM1C	43-6	VDC POWER	CM1FCM1ICM1ECM1HPR											1
CM1C	43-6	VDC POWER	CM1G	PR										2
CM1C	44-6	VDC POWER	CM1FCM1ICM1ECM1HPR											1
CM1C	44-6	VDC POWER	CM1G	PR										
CM1C	44-6	VDC POWER	COMP2	PR										
CM1C	45-35	VDC POWER	CM1ECM1FCM1GCM1HPR											1
CM1C	46-115	VAC SWITCHED	COMP2	PR										1

CMIC 47 SYSTEM GROUND	COMP2	PK		1
CM1D 1 3	CM1C	HA		1
CM1D 1 3	COMP2	HA		2
CM1D 2 4	CM1A	LD 1 5 0 0 0 0 1 100 10K 40	A1	
CM1D 2 4	COMP2	LD 1 5 0 0 0 0 1 100 10K 40	A2	
CM1D 3 5	CM1A	LD 1 5 0 0 0 0 1 100 10K 40	A1	
CM1D 3 5	COMP2	LD 1 5 0 0 0 0 1 100 10K 40	A2	
CM1D 4 7	CM1CCM1I	LD 1 5 0 0 0 0 1 100 10K 40	A1	
CM1D SPURER GROUND	PK3A	PK		1
CM1E 1 14	CM1C	HA		1
CM1E 2 15	CM1C	HA		1
CM1E 3 16	CM1C	HA		1
CM1E 1 23	CM1C	HA		1
CM1F 2 24	CM1C	HA		1
CM1F 3 25	CM1C	HA		1
CM1G 1 20	CM1C	HA		1
CM1G 4 21	CM1C	HA		1
CM1G 3 22	CM1C	HA		1
CM1H 1 17	CM1C	HA		1
CM1H 2 18	CM1C	HA		1
CM1H 3 19	CM1C	HA		1
CM1I 1 6	CM1C	HA		1
CM1I 2 9	CM1C	HA		1
CM1I 3 1	CM1D	LD 1 5 8 0 0 0 1 8 0 2K	P1	
CM1I 4 2	CM1D	LD 1 5 8 0 0 0 1 8 0 2K	P1	
CM1J 1RF 1N	CM1E	HA		1
CM1K 1RF 1N	CM1F	HA		1
CM1L 1RF 1N	CM1G	HA		1
CM1M 1RF 1N	CM1H	HA		1
CM1N 1RF 1N	CM1D	HA		1
CM3A 10VFLD 1+2	CM3E	LD 1 5 0 0 0 0 1 100 10K 40	A1	
CM3A 20VFLD INDICATOR 1+2	CM3B	LD 1 5 0 0 0 0 1 100 10K 40	A1	
CM3A 32B VDC DELAYED 1	CM3H	LD 1 5 28 0 0 0 1 28 0 150	P1	
CM3A 4RF DETECTOR 1	CM3B	LD 1 5 0 0 0 0 1 100 10K 40	A1	
CM3A 5RF DETECTOR 2	CM3H	LD 1 5 0 0 0 0 1 100 10K 40	A1	
CM3A 62B VDC DELAYED 2	CM3B	LD 1 5 28 0 0 0 1 0 0 150	P1	
CM3B 1STANDBY CONTROL 1	CM3A	LD 1 5 0 0 0 0 1 100 10K 50	A1	
CM3B 2TRANSMIT CONTROL 1	CM3A	LD 1 5 28 0 0 0 1 28 0 150	P1	
CM3B 2TRANSMIT CONTROL 1	COMP2	LD 1 5 28 0 0 0 1 28 0 150	P2	
CM3B 3TRANSMIT CONTROL 2	CM3A	LD 1 5 28 0 0 0 1 28 0 150	P1	
CM3B 3TRANSMIT CONTROL 2	COMP2	LD 1 5 28 0 0 0 1 28 0 150	P2	
CM3B 4STANDBY CONTROL 2	CM3A	LD 1 5 0 0 0 0 1 100 10K 50	A1	
CU1A 1ADF AUDIO ERROR	NV3A	AA		1
CU1A 2AUDIO OUT	CU1B	AA		1
CU1B 1ADF ENABLE	NV3A	LD 1 5 0 0 0 0 1 100 10K 50	A	
CU1B 2AUDIO OUT	CU3A	AA		
CU1B 3SENSITIVITY	CU1A	LA12 5 4 0 0 0 DC 4 5K 0 DC		
CU1B 4ADF TIME CONSTANT	CU1A	LD 1 5 0 0 0 0 0 100 10K 50	A	
CU1B 5SPURER ON	CU1A	LD 1 5 0 0 0 0 0 100 10K 50	A	
CU1B 6GUARD CHANNEL ON	CU1A	LD 1 5 0 0 0 0 1 100 10K 50	A	
CU1B 7CHANNEL SELECT 3A	CU1A	LD 1 5 28 0 0 0 1 28 0 600	P	
CU1B 8CHANNEL SELECT 1	CU1A	LD 1 5 28 0 0 0 1 28 0 600	P	
CU1B 9CHANNEL SELECT 2	CU1A	LD 1 5 28 0 0 0 1 28 0 600	P	
CU1B 10CHANNEL SELECT 3	CU1A	LD 1 5 28 0 0 0 1 28 0 600	P	
CU1B 11CHANNEL SELECT 4	CU1A	LD 1 5 28 0 0 0 1 28 0 600	P	
CU1B 12ADF ENABLE	CU1B	LD 1 5 0 0 0 0 1 100 10K 50	A	
CU1C 1GUARD CHANNEL ON	CU1A	LD 1 5 0 0 0 0 1 100 10K 50	A	
CU2A 1RT + GUARD AUDIO	CU2B	AA		1
CU2A 2GUARD AUDIO	CU3A	AA		1
CU2A 3RT RF (RCVR/XMIT)	NV3A	HA		1



[illegible]

CU2B 60RFCI CONTROL 37	COMP2	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 61RFCI CONTROL 38	COMP2	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 62RFCI CONTROL 39	COMP2	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 63RFCI CONTROL 40	COMP2	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 64RFCI CONTROL 41	COMP2	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 65RFCI CONTROL 42	COMP2	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 66RFCI CONTROL 43	COMP2	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 67RFCI CONTROL 44	COMP2	LD 1 5 28 0 0 1 28 0 600 P1
CU2B 68RFCI CONTROL 45	COMP2	LD 1 5 28 0 0 1 28 0 600 P1
CU2C 1UHF RF (RCVR/XMIT)	CU6G	HA
CU3A 1MICROPHONE INPUT	CU5A	AA
CU3A 2VHF PRESS-TO-TALK	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU3A 3NARROW/WIDE BAND CONC	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU3A 4MIKE INPUT	CU2A	AA
CU3A 5TRANSMIT KEY	CU2A	LD 1 10 0 0 0 1 100 10K 50 A1
CU3A 6GUARD AUDIO	CU2B	AA
CU3A 7ADF ENABLE	CU1B	LD 1 5 0 0 0 1 100 10K 50 A1
CU4A1 FHEADSET AUDIO OUT	CU3A	AA0418K
CU4A2 BCARBON MIKE OUT	CU3A	AA0418K
CU4A2 ESHIELDS	PR3A	PR
CU4A2 KPRIMAKY GND	PR3A	PR
CU4A2 RSYSTEM GND	CU4B	PR
CU4A2 SSYSTEM GND	CU4B	PR
CU4A2 UWBAND AUDIO	NV3A	MA
CU4B1 6+28VDC	CU4A	PR
CU4B1 CEXT TIME DELAY	CU4A	LD01 5 0 0 0 1 100 10K 1 A1
CU4B1 DSYSTEM GND	CU4A	PR
CU4B1 FPANEL LIGHT GND	PR3A	PR
CU4B1 GP/C CONTROL	CU4A	LD01 5 28 0 0 0 28 0 600 P1
CU4B1 JZEROIZE	CU4A	LD01 20 28 0 0 1 28 0 4 P1
CU5A 1AUDIO OUT TO CONTROL	CU5C	AA
CU5A 2WIDE BAND CODED AUD	CU3A	AA
CU5B 1KF IN/OUT	CU5D	HA
CU5C 10.05 MHZ SELECT A	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 20.05 MHZ SELECT B	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 30.05 MHZ SELECT C	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 40.05 MHZ SELECT D	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 50.05 MHZ SELECT E	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 6MHZ SELECT A	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 7MHZ SELECT B	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 8MHZ SELECT C	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 9MHZ SELECT D	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 10MHZ SELECT E	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 11TONE SQUELCH	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 12SQUELCH	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 13BAND A 30-52 MHZ	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 14BAND B 53-76 MHZ	CU5A	LD 1 5 0 0 0 1 100 10K 50 A1
CU5C 15AUDIO OUT TO AIC-26	CU3A	AA
CU5D 1KF IN/OUT	CU5A	HA
CU6A1 1AC RETURN	PR3A	PR
CU6A1 3SYSTEM GND	PR3A	PR
CU6A1 7115VAC SWITCHED	CU6FCU6G	PR
CU6A1 9AUDIO OUT	CU3A	AA0418K
CU6A110AUDIO COMMON	CU3A	AA
CU6A111SUPPRESSION OUT	MS1A	MD 20US 1200PRF
CU6A134REPLY LIGHT ENABLE	CU6B	LD01 20 28250 0 1 28 0 250 P1
CU6A145MODE 4 CHALLENGE	CU6F	HA VIDEO
CU6A146MODE 4 ENABLE	CU6F	HD TRIGGER
CU6A15328VDC CAUTION LT	CU6F	LD01 5 28 0 0 1 28 0 25 P1
CU6A5 RF IN/OUT	CU6C	HA COAX



C06B1 1REFUEL HOLD	C06F	LD01 20	0	0	0	1	100	10K	100	A1
C06B1 2IDENT CONT	C06A	LD01 20	0	0	0	1	100	10K	40	A1
C06B1 3TEST BIT CONT	C06F	LD01 20	0	0	0	1	100	10K	5	A1
C06B1 4MODE C ENABLE	C06A	LD01 5	0	0	0	1	100	10K	2	A1
C06B1 5EMERGENCY CONT	C06A	LD01 20	0	0	0	1	100	10K	2	A1
C06B1 6MODE 3/A ENABLE	C06A	LD01 5	0	0	0	1	100	10K	2	A1
C06B1 8STANDBY CONTROL	C06A	LD01 5	0	0	0	1	100	10K	2	A1
C06B1 9MODE 2 ENABLE	C06A	LD01 5	0	0	0	1	100	10K	2	A1
C06B110SENSITIVITY	C06A	LD01 5	0	0	0	1	100	10K	40	A1
C06B111POWER RELAY CONT	C06A	LD01 5	0	0	0	1	100	10K	40	A1
C06B115MODE 3/A C1 CONT	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B116MODE 3/A C2 CONT	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B117MODE 3/A C4 CONT	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B118MODE 3/A D1	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B119MODE 3/A D2	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B120MODE 3/A D4	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B122ZEROIZE RETURN	C06F	LD01 5	0	0	0	1	100	10K	40	A1
C06B123L-BAND DISABLE	C06F	LD01 5	0	0	0	1	100	10K	15	A1
C06B124TEST MODE CONT	C06A	LD01 20	0	0	0	1	100	10K	2	A1
C06B125MODE 1 ENABLE	C06A	LD01 5	0	0	0	1	100	10K	2	A1
C06B126MODE 1 A1	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B127MODE 1 A2	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B128MODE 1 A4	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B129MODE 1 B1	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B130MODE 1 B2	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B131SYSTEM GND	PR3A	PR								1
C06B132MODE 3/A A1	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B133MODE 3/A A2	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B134GROUND	PR3A	PR								1
C06B135MODE 3/A A4	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B136MODE 3/A B1	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B137MODE 3/A B2	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B138MODE 3/A B4	C06A	LD01 1	0	0	0	1	100	10K	2	A1
C06B140MODE 1 TEST	C06C	LD01 5	0	0	0	1	100	10K	40	A1
C06B141MODE 2 TEST	C06C	LD01 5	0	0	0	1	100	10K	40	A1
C06B143MODE 3/A TEST	C06C	LD01 5	0	0	0	1	100	10K	40	A1
C06B144MODE C TEST	C06C	LD01 5	0	0	0	1	100	10K	40	A1
C06B145MONITOR CONTROL	C06C	LD01 5	0	0	0	1	100	10K	40	A1
C06B148CODE 8 CONT	C06F	LD01 5	0	0	0	9	100	10K	5	A1
C06B153GROUND	PR3A	PR								1
C06B155AUDIO ENABLE	C06A	LD01 5	0	0	0	1	100	10K	2	A1
C06C1 2SYSTEM GROUND	PR3A	PR								1
C06C1 8TEST LIGHT	C06E	LD01 5	28	0	0	1	28	0	600	P1
C06C2 RF IN/OUT	C06A	HA	COAX							1
C06C3 RF IN/OUT	C06G	HA	COAX							1
C06D1 RF IN/OUT	C06G	HA	COAX							1
C06E1 5COMMON GROUND	PR3A	PR								1
C06E114CASE GROUND	PR3A	PR								1
C06E121VIBRATOR GROUND	PR3A	PR								1
C06F1 1MODE 4 REPLY TRIGGER	C06A	HD	COAX							1
C06F1 4MODE 4 DISPARITY	C06A	HD	TRIGGER COAX							1
C06F116115VAC RETURN	PR3A	PR								1
C06F117ZEROIZE CODE IND	C06A	LD01 5	28	0	0	1	28	0	600	P1
C06F13028VDC CAUTION LT	COMP2	LD01 5	28	0	0	1	28	0	600	P1
C06F134SYSTEM GROUND	PR3A	PR								1
C06G1 UHF RF IN/OUT	NV3A	HA								1
C06G2 RF IN/OUT	C06D	HA	COAX							1
C06G3 IFF RF IN/OUT	C06C	HA	COAX							1
COMP1 2MACH NUMBER	FC4A	LS13	2011.8600			11.8	20			1
COMP1 4ALTITUDE (ANALOG HI)ID5A		LA12	2030.5	0	0	DC30.5	6K	0	DC1	

COMP1 ALTITUDE (MODE C,A1)C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP1 ALTITUDE (MODE C,A2)C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP1 ALTITUDE (MODE C,A4)C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP1 ALTITUDE (MODE C,B1)C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP1 ALTITUDE (MODE C,B2)C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP10 ALTITUDE (MODE C,B4)C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP11 ALTITUDE (MODE C,C1)C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP12 ALTITUDE (MODE C,C2)C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP13 ALTITUDE (MODE C,C4)C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP14 ALTITUDE (MODE C,D2)C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP15 ALTITUDE (MODE C,D4)C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP16 ADC FAIL C06A	LD 1 5 28 0 0 1 28 0 600 P1
COMP17 ADC RELIABILITY C06E	LD 1 5 28 0 0 1 28 0 600 P1
COMP17 ADC RELIABILITY COMP2	LD 1 5 28 0 0 1 28 0 600 P2
COMP18 FUE AIRSPEED (SYM) COMP2	LS13 1011.8 50 11.8 200 1
COMP140 VERTICAL POINTER COMP2	LA12 5 5 0-2.5 DC 5 1K-2.5 DC1
COMP141 VERTICAL POINTER FLG COMP2	LD 1 5 28 0 0 1 28 0 1K P1
COMP142 HORIZONTAL POINTER COMP2	LA12 5 5 0-2.5 DC 5 1K-2.5 DC1
COMP143 HORIZ POINTER FLAG COMP2	LD 1 5 28 0 0 1 28 0 1K P1
COMP144 DISPLACEMENT POINTER COMP2	LA12 5 5 0-2.5 DC 5 1K-2.5 DC1
COMP145 DISPL POINTER FLAG COMP2	LD 1 5 28 0 0 1 28 0 1K P1
COMP146 BEARING POINTER NO.1 COMP2	LS13 511.8 50 11.8 200 1
COMP147 BEARING POINTER NO.2 COMP2	LS13 511.8 50 11.8 200 1
COMP148 COURSE DEVIATION COMP2	LA12 5 5 0-2.5 DC 5 1K-2.5 DC1
COMP149 COURSE DEV FLAG COMP2	LD 1 5 28 0 0 1 28 0 1K P1
COMP150 TO/FROM ARROW COMP2	LD 1 5 28 0 0 1 28 0 200 P1
COMP151 RANGE UNITS COMP2	LS 7 511.8 50 11.8 200 1
COMP152 RANGE TENS COMP2	LS 7 511.8 50 11.8 200 1
COMP153 RANGE HUNDREDS COMP2	LS 7 511.8 50 11.8 200 1
COMP154 1000 N. MILE DIGIT COMP2	LD 1 5 28 0 0 1 28 0 1K P1
COMP159 SCALE FACTOR NV2A	LD 1 5 5 0 0 1 5 0 500 P1
COMP160 AZIMUTH SLEW NV2A	LD 1 5 5 0 0 1 5 0 500 P1
COMP161 LATITUDE 70 DEGREES NV2A	LD 1 5 5 0 0 1 5 0 500 P1
COMP162 COMPUTER FAIL NV2A	LD 1 5 5 0 0 1 5 0 500 P1
COMP163 COMPUTER CONTROL NV2A	LD 1 5 5 0 0 1 5 0 500 P1
COMP164 AUTOLOCAL IN PROGRESS NV2A	LD 1 5 5 0 0 1 5 0 500 P1
COMP165 AZIMUTH SLEW SENSE NV2A	LD 1 5 5 0 0 1 5 0 500 P1
COMP166A SLEW NV2A	LD 1 5 5 0 0 1 5 0 500 P1
COMP167A SLEW SENSE NV2A	LD 1 5 5 0 0 1 5 0 500 P1
COMP168A SLEW NV2A	LD 1 5 5 0 0 1 5 0 500 P1
COMP169A SLEW SENSE NV2A	LD 1 5 5 0 0 1 5 0 500 P1
COMP170 SERIAL CHANNEL CLOCK NV1A/D5C	HW 1
COMP171 FLK SIN CURSOR AZ TD5C	LW16 25 SERIAL DIGITAL SERIAL DIGITAL 1
COMP172 FLK COS CURSOR AZ TD5C	LW16 25 SERIAL DIGITAL SERIAL DIGITAL 1
COMP173 FLK RANGE CURSOR TD5C	LW16 25 SERIAL DIGITAL SERIAL DIGITAL 1
COMP174 FLK ADDRESS OUT TD5C	HW 1
COMP175 FLK DATA READY OUT TD5C	HW 1
COMP176 ANTEENNA POINTING AZ TD5A	LS13 2511.8600 11.8 20 1
COMP177 ANTEENNA POINTING EL TD5A	LS13 2511.8600 11.8 20 1
COMP178 GROUND TRACK VEL TD5C	LA12 25 18100 0 DC 18 10K 0 DC1
COMP179 FLIGHT PATH ANGLE TD5C	LA12 25 18100 0 DC 18 10K 0 DC1
COMP180 COMPUTER FAIL TD5C	LD 1 25 28 0 0 1 28 0 600 P1
COMP181 CURSOR ENABLE TD5B	LD 1 25 28 0 0 1 28 0 600 P1
COMP182 ANTEENNA SLAVE TD5B	LD 1 25 28 0 0 1 28 0 600 P1
COMP183 COMMAND TEST TD5A	LD 1 5 28 0 0 1 28 0 600 P1
COMP186 RANGE TO DEST UNITS COMP2	LS 7 511.8600 0 11.8 20 1
COMP187 RANGE TO DEST TENS COMP2	LS 7 511.8600 0 11.8 20 1
COMP188 RANGE TO DEST HUNDREDS COMP2	LS 7 511.8600 0 11.8 20 1
COMP189 COMPUTER FAIL TD3D	LD 1 5 28 0 0 1 28 0 600 P1



COMP120IMV NOT ALIGNED	ID3D	LD 1 5 28 0 0 1 28 0 600 P1	1
COMP122SHIFT CLOCK	MF1B	HW	1
COMP123NWUP DATA OUT	MF1B	LW16 5SERIAL DIGITALSERIAL DIGITAL	1
COMP124NWUP ADDRESS 1	MF1B	LD 1 5 5 0 0 1 5 0 500 P1	1
COMP125NWUP ADDRESS 2	MF1B	LD 1 5 5 0 0 1 5 0 500 P1	1
COMP126NWUP ADDRESS 3	MF1B	LD 1 5 5 0 0 1 5 0 500 P1	1
COMP127NWUP ADDRESS 4	MF1B	LD 1 5 5 0 0 1 5 0 500 P1	1
COMP128NWUP READ	MF1B	LD 1 10 5 0 0 1 5 0 500 P1	1
COMP129NWUP WRITE	MF1B	LD 1 50 5 0 0 1 5 0 500 P1	1
COMP130CLOCK	MF1B	HW	1
COMP131POWER ON RESET	MF1B	LD 1 5 5 0 0 1 5 0 500 P1	1
COMP132IACAN ADDRESS OUT	NV6A	LD 1 5 5 0 0 1 5 0 500 P1	1
COMP133IACAN READ	NV6A	HW	1
COMP134SHIFT CLOCK	NV6A	HW	1
COMP135PMDS DATA READY OUT	CUMP2	HW	1
COMP136PMDS COURSE X	CUMP2	LW13 5SERIAL DIGITALSERIAL DIGITAL	1
COMP137PMDS FINE X	CUMP2	LW13 5SERIAL DIGITALSERIAL DIGITAL	1
COMP138PMDS Y COMMAND	CUMP2	LW13 5SERIAL DIGITALSERIAL DIGITAL	1
COMP139PMDS ORIENTATION	CUMP2	LW13 5SERIAL DIGITALSERIAL DIGITAL	1
COMP140MAGNETIC READING	CUMP2	LW13 5SERIAL DIGITALSERIAL DIGITAL	1
COMP141BEAKING TO DEST	CUMP2	LW13 5SERIAL DIGITALSERIAL DIGITAL	1
COMP142SERIAL CLOCK	CUMP2	HW	1
COMP143SAMPLE CLOCK	NV2A	HW	1
COMP144PMDS ADDRESS OUT	CUMP2	HW	1
COMP145GND	PK3A	PK	1
COMP146GND	PK3A	PK	1
COMP147GND	PK3A	PK	1
COMP148SIGNAL GND	PK3A	PK	1
COMP149VER1 BEAM SENSE	PK3A	PK	1
COMP150-15V SYMBOL BIAS	ID7A	PR	1
COMP151THERMAL OVERLOAD	ID7A	LD01 1 5 0 0 1 5 0 500 P1	1
COMP152-15VDC SYMBOL BIAS	ID7A	PR	1
COMP153HORIZ-FLI PATH ANG	ID7A	LA0B 20 15100 0 DC 15 5K 0 DC1	1
COMP154X DEFLECTION	ID7A	HA CRITICAL	1
COMP15570VAC PHASE C	ID7A	PR	1
COMP15670VAC A	ID7A	PR	1
COMP157BOOST SIGNAL REF	ID7A	HU CRITICAL	1
COMP158GND	PK3A	PK	1
COMP159GND	PK3A	PK	1
COMP16040VAC PHASE A	ID7A	PR	1
COMP16140VAC PHASE B	ID7A	PR	1
COMP162GND	PK3A	PK	1
COMP163-15VDC EXCITATION	CUMP2	PR	1
COMP164DEFLECTION MON RET	ID7A	PR	1
COMP165ELEC UNIT FAIL	ID7A	LD01 1 5 0 0 1 5 0 500 P1	1
COMP166BRIGHT-UP	ID7A	HA CRITICAL	1
COMP1671-DEFLECTION	ID7A	HA CRITICAL	1
COMP168SALVO JETTISON	CM2B	LD 1 5 28 0 0 1 28 0 600 P1	1
COMP169STA 4 115 VAC PH A	ID3H	LD 1 5 5500 0 85 5 0 500 P1	1
COMP170STA 1 115 VAC PH A	ID3E	LD 1 5 5500 0 85 5 0 500 P1	1
COMP171STA 1 115 VAC PH B	ID3E	LD 1 5 5500 0 85 5 0 500 P1	1
COMP172STA 1 PH C + BP FIL	ID3E	LD 1 5 5500 0 85 5 0 500 P1	1
COMP173STA 2 115 VAC PH A	ID3F	LD 1 5 5500 0 85 5 0 500 P1	1
COMP174STA 2 115 VAC PH B	ID3F	LD 1 5 5500 0 85 5 0 500 P1	1
COMP175STA 2 PH C + BP FIL	ID3F	LD 1 5 5500 0 85 5 0 500 P1	1
COMP176STA 3 115 VAC PH A	ID3I	LD 1 5 5500 0 85 5 0 500 P1	1
COMP177STA 3 115 VAC PH B	ID3G	LD 1 5 5500 0 85 5 0 500 P1	1
COMP178STA 3 115 VAC PH C	ID3G	LD 1 5 5500 0 85 5 0 500 P1	1
COMP179STA 3 PH C + BP FIL	ID3G	LD 1 5 5500 0 85 5 0 500 P1	1
COMP180STA 5 115 VAC PH A	ID3J	LD 1 5 5500 0 85 5 0 500 P1	1

COMP181STA 6 115 VAC PH B TD3J	LD 1 5 5500 0 85 5 0 500 P1
COMP182STA 6 PH C + BP FIL TD3J	LD 1 5 5500 0 85 5 0 500 P1
COMP183STA 7 115 VAC PH A TD3K	LD 1 5 5500 0 85 5 0 500 P1
COMP184STA 7 115 VAC PH B TD3K	LD 1 5 5500 0 85 5 0 500 P1
COMP185STA 7 PH C + BP FIL TD3K	LD 1 5 5500 0 85 5 0 500 P1
COMP186STA 8 115 VAC PH A TD3L	LD 1 5 5500 0 85 5 0 500 P1
COMP187STA 8 115 VAC PH B TD3L	LD 1 5 5500 0 85 5 0 500 P1
COMP188STA 8 PH C + BP FIL TD3L	LD 1 5 5500 0 85 5 0 500 P1
COMP189ENGINE ORDNANCE EL4F	LD 1 5 5500 0 85 5 0 500 P1
COMP190ARM-77 STANDBY PWR TD3N	LD 1 5 5500 0 85 5 0 500 P1
COMP191ARM-77 XMTR TURN-ON TD3N	LD 1 5 5500 0 85 5 0 500 P1
COMP192GUN RATE HYD DRIVE TD3O	LD 1 5 5500 0 85 5 0 500 P1
COMP193GAS PURGE TD3O	LD 1 5 5500 0 85 5 0 500 P1
COMP194CAMERA CONTROL TD3P	LD 1 5 5500 0 85 5 0 500 P1
COMP195INTERNAL GUNS FIRE TD3O	LD 1 5 5500 0 85 5 0 500 P1
COMP196STA 1 EKR AWL TD3E	LD01 5 5500 0 85 5 0 500 P1
COMP197STA 2 RKT SEL TD3F	LD01 5 5500 0 85 5 0 500 P1
COMP198STA 3 RKT SEL TD3G	LD01 5 5500 0 85 5 0 500 P1
COMP199STA 6 RKT SEL TD3I	LD01 5 5500 0 85 5 0 500 P1
COMP100STA 7 RKT SEL TD3J	LD01 5 5500 0 85 5 0 500 P1
COMP101STA 8 RKT SEL TD3K	LD01 5 5500 0 85 5 0 500 P1
COMP102STA 5 FIRING TD3I	LD01 5 5500 0 85 5 0 500 P1
COMP103STA 5 JETTISON TD3I	LD01 20 5500 0 85 5 0 500 P1
COMP104STA 4 FIRING TD3H	LD01 5 5500 0 85 5 0 500 P1
COMP105STA 4 JETTISON TD3H	LD01 20 5500 0 85 5 0 500 P1
COMP106STA 5 28VDC POWER TD3I	LD01 5 5500 0 85 5 0 500 P1
COMP107STA 1 WE CG + MA ARMID3E	LD01 5 5500 0 85 5 0 500 P1
COMP108STA 2 WE CG + MA ARMID3F	LD01 5 5500 0 85 5 0 500 P1
COMP109STA 3 WE CG + MA ARMID3G	LD01 5 5500 0 85 5 0 500 P1
COMP110STA 6 WE CG + MA ARMID3J	LD01 5 5500 0 85 5 0 500 P1
COMP111STA 7 WE CG + MA ARMID3K	LD01 5 5500 0 85 5 0 500 P1
COMP112STA 8 WE CG + MA ARMID3L	LD01 5 5500 0 85 5 0 500 P1
COMP113STA 8 MAU-12 JETT TD3L	LD01 20 5500 0 85 5 0 500 P1
COMP114STA 8 BP ENG FIRING TD3L	LD01 5 5500 0 85 5 0 500 P1
COMP115STA 7 BP FIRE + REL TD3K	LD01 5 5500 0 85 5 0 500 P1
COMP116STA 7 BP INIT + DISC TD3K	LD01 5 5500 0 85 5 0 500 P1
COMP117STA 6 BP ENG FIRING TD3J	LD01 5 5500 0 85 5 0 500 P1
COMP118STA 6 BP INIT + DISC TD3J	LD01 5 5500 0 85 5 0 500 P1
COMP119STA 4 28VDC POWER TD3H	LD01 5 5500 0 85 5 0 500 P1
COMP120STA 1 MAU-12 + N ARMID3E	LD01 5 5500 0 85 5 0 500 P1
COMP121STA 2 MAU-12 + N ARMID3F	LD01 5 5500 0 85 5 0 500 P1
COMP122STA 3 MAU-12 + N ARMID3G	LD01 5 5500 0 85 5 0 500 P1
COMP123STA 6 MAU-12 + N ARMID3J	LD01 5 5500 0 85 5 0 500 P1
COMP124STA 7 MAU-12 + N ARMID3K	LD01 5 5500 0 85 5 0 500 P1
COMP125STA 8 MAU-12 + N ARMID3L	LD01 5 5500 0 85 5 0 500 P1
COMP126STA 8 MAU-12 FIRING TD3L	LD01 5 5500 0 85 5 0 500 P1
COMP127STA 8 BP IN + DISC TD3L	LD01 5 5500 0 85 5 0 500 P1
COMP128STA 7 MAU-12 JETT TD3K	LD01 20 5500 0 85 5 0 500 P1
COMP129STA 7 MAU-12 FIRING TD3K	LD01 5 5500 0 85 5 0 500 P1
COMP130STA 6 MAU-12 FIRING TD3J	LD01 5 5500 0 85 5 0 500 P1
COMP131STA 6 MAU-12 JETT TD3J	LD01 20 5500 0 85 5 0 500 P1
COMP132STA 4 MASTER ARM TD3H	LD01 5 5500 0 85 5 0 500 P1
COMP133STA 1 MAU-12 T ARM TD3E	LD01 5 5500 0 85 5 0 500 P1
COMP134STA 2 MAU-12 T ARM TD3F	LD01 5 5500 0 85 5 0 500 P1
COMP135STA 3 MAU-12 T ARM TD3G	LD01 5 5500 0 85 5 0 500 P1
COMP136STA 6 MAU-12 T ARM TD3J	LD01 5 5500 0 85 5 0 500 P1
COMP137STA 7 MAU-12 T ARM TD3K	LD01 5 5500 0 85 5 0 500 P1
COMP138STA 8 MAU-12 T ARM TD3L	LD01 5 5500 0 85 5 0 500 P1
COMP139STA 2 BP ENG FIRING TD3F	LD01 5 5500 0 85 5 0 500 P1
COMP140STA 3 MAU-12 FIRING TD3G	LD01 5 5500 0 85 5 0 500 P1



COMP141STA 1 MAU-12 FIRING TD3E	LD01	5	5500	0	85	5	0	500	P1
COMP142STA 1 BP INIT + DISCID3E	LD01	5	5500	0	85	5	0	500	P1
COMP143STA 2 MAU-12 FIRING TD3F	LD01	5	5500	0	85	5	0	500	P1
COMP144STA 2 BP INIT + DISCID3F	LD01	5	5500	0	85	5	0	500	P1
COMP145STA 3 BP INIT + DISCID3G	LD01	5	5500	0	85	5	0	500	P1
COMP146STA 5 MASTER ARM TD3I	LD01	5	5	0	0	1	5	0	25 P1
COMP147STA 1 MAU-12 JETT TD3E	LD01	20	5500	0	85	5	0	500	P1
COMP148STA 1 BP ENG FIRING TD3E	LD01	5	5500	0	85	5	0	500	P1
COMP149STA 2 MAU-12 JETT TD3F	LD01	20	5500	0	85	5	0	500	P1
COMP150STA 3 MAU-12 JETT TD3G	LD01	20	5500	0	85	5	0	500	P1
COMP151STA 3 BP ENG FIRING TD3G	LD01	5	5500	0	85	5	0	500	P1
COMP152RETARDED ADVISORY LTID3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP153STA 4 RDY,STORE PRESTD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP154STA 5 RDY,STORE PRESTD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP155GUN VENT BYPASS VALVID3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP156NAPALM ADVISORY LT TD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP157BOMB MULTIPLE ADV LTID3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP158BOMB SINGLE ADV LT TD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP159GUN/GUNPOD ADV LT TD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP160ROCKETS ADVISORY LT TD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP161MECH FUZE ADV LT TD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP162SIDEWINDER ADV LT TD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP163DISPENSER ADV LT TD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP164FLARES ADVISORY LT TD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP165SPRAY TANK ADV LT TD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP166BULLPUP ADVISORY LT TD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP167WALLEYE ADVISORY LT TD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP168STA 1 RDY,STORE PRESTD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP169STA 2 RDY,STORE PRESTD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP170STA 3 RDY,STORE PRESTD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP171STA 6 RDY,STORE PRESTD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP172STA 7 RDY,STORE PRESTD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP173STA 8 RDY,STORE PRESTD3D	LD01	5	25	0	0	1	100	10K	80 A1
COMP174RADAR DISP INTERRUPTCOMP2	LD01	5	5500	0	85	5	0	500	P1
COMP192COMPUTER SHIELD GND PR3A	GROUND								
COMP194CHASSIS GND (SPARE) PR3A	GROUND								
COMP195AUDIO C07A	AA0410K400 TO 2000 HZ								
COMP196AUDIO COMMON C07A	400 TO 2000 HZ								
COMP197ITV DATA OUT TD1A	HW	SERIAL DIGITALSERIAL DIGITAL 1							
COMP198ITV ADDRESS OUT TD1A	HW	SERIAL DIGITALSERIAL DIGITAL 1							
COMP199ITV DATA READY OUT TD1A	HW	SERIAL DIGITALSERIAL DIGITAL 1							
COMP100SERIAL CHANNEL CLOCKTD1A	HW	SERIAL DIGITALSERIAL DIGITAL 1							
COMP1 MULTIPROCESSOR IN MF1C	LW	COMPUTER I/O							
COMP2 1 46 C03A	AA								
COMP2 2 47 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP2 3 48 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP2 4 49 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP2 5 50 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP2 6 51 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP2 7 62 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP2 8 63 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP2 9115 VAC FUSED CM1C	PR								
COMP210 71 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP211 72 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP212 73 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP213 74 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP214 75 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP215 76 CM1C	LD	1	5	6	0	0	1	6	0 600 P1
COMP216 9 CM1I	LD	1	5	6	0	0	1	6	0 600 P1
COMP217 10 C03A	AA								

CUMP218SELF TEST1	NV4A	LD 1	5	0	0	0	1	100	10K	50	A1
CUMP219LOW ALT WARNING	CUMP2	LD 1	10	28	0	0	1	28	0	600	P1
CUMP220DECENTER	CUMP1	LD 1	5	5	0	0	1	5	0	500	P1
CUMP221HOLD	CUMP1	LD 1	5	5	0	0	1	5	0	500	P1
CUMP222SCALE	CUMP1	LD 1	5	5	0	0	1	5	0	500	P1
CUMP223NORTH UP	CUMP1	LD 1	5	5	0	0	1	5	0	500	P1
CUMP224SCALE-10	CUMP1	LD 1	5	5	0	0	1	5	0	500	P1
CUMP225E/W SLEW	NV7B	LA 8	5	5	0	0	AC	5	1K	0	AC1
CUMP226MANUAL	NV7B	LD 1	5	28	0	0	1	28	0	600	P1
CUMP227BRIGHTNESS	NV7A	LA 8	5	23	0	0	DC	23	5K	0	DC1
CUMP228TEST	NV7B	LD 1	5	5	0	0	1	5	0	500	P1
CUMP229DATA	NV7E	LD 1	5	5	0	0	1	5	0	500	P1
CUMP230OPERATE	NV7B	LD 1	5	5	0	0	1	5	0	500	P1
CUMP231W/S SIN	NV7B	LS13	5	3.6500				3.6	5		1
CUMP232W/S COS	NV7E	LS13	5	3.6500				3.6	5		1
CUMP233E/W SIN-COARSE	NV7B	LS13	5	3.6500				3.6	5		1
CUMP234E/W COS-COARSE	NV7E	LS13	5	3.6500				3.6	5		1
CUMP235E/W SIN-MED	NV7B	LS13	5	3.6500				3.6	5		1
CUMP236E/W COS-MED	NV7B	LS13	5	3.6500				3.6	5		1
CUMP237E/W SIN-FINE	NV7B	LS13	5	3.6500				3.6	5		1
CUMP238E/W COS-FINE	NV7B	LS13	5	3.6500				3.6	5		1
CUMP239READING SIN	NV7B	LS13	5	3.6500				3.6	5		1
CUMP240READING COS	NV7E	LS13	5	3.6500				3.6	5		1
CUMP241BEARING SIN	NV7B	LS13	5	3.6500				3.6	5		1
CUMP242BEARING COS	NV1A	LS13	5	3.6500				3.6	5		1
CUMP243ORIENT SIN	NV1A	LS13	5	3.6500				3.6	5		1
CUMP244ORIENT COS	NV1A	LS13	5	3.6500				3.6	5		1
CUMP245E/W RATE FEEDBACK	NV1A	LS13	5	3.1500				3.6	5		1
CUMP246W/S RATE FEEDBACK	NV1A	LS13	5	3.1500				3.6	5		1
CUMP247ORIENT RATE FDBK	NV1A	LS13	5	3.1500				3.6	5		1
CUMP248BEARING RATE FDBK	NV1A	LS13	5	3.1500				3.6	5		1
CUMP249READING RATE FDBK	NV1A	LS13	5	3.1500				3.6	5		1
CUMP2 DISPLAY PROCESSOR AND SIC		LK									
DATA DISPL PROCESSOR OUT CUMP2		LK									
EL1A 1RAIN REPEL DELAY RT	EL1A	LD 1	5	28	0	0	1	28	0	150	P1
EL1A 2RAIN REMOVE HOT WARNEL2C		LD 1	5	28	0	0	1	28	0	600	P1
EL1A 3DOX CONVERTER	EL1A	LA 7	5	20	0	0	AC	20	2K	0	AC1
EL1A 4SUIT TEMP SENSOR	EL1A	LA 8	5	12.6	0	0	DC	12.6	2K	0	DC1
EL1A 5SUIT TEMP CONTROL	EL1A	LA 8	5	12	0	0	DC	12	2K	0	DC1
EL1A 6ANTICIPATOR	EL2C	LA 8	5	12.6	0	0	DC	12.6	2K	0	DC1
EL1A 7CLOCKING TEMP SENSOR	EL2C	LA 8	5	12.6	0	0	DC	12.6	2K	0	DC1
EL1A 8RH GEAR UNLOCK SW	EL4A	LD 1	5	28	0	0	1	28	0	600	P1
EL1A 9EPP DOOR SWITCH	EL2C	LD 1	5	28	0	0	1	28	0	600	P1
EL1A 10TGT TEST SWITCH	EL2A	LD 1	5	5500	0	85	5	0	500	P1	
EL1A 11HOSE GEAR DUAN-LRD	EL2FEL4AEL4B	LD 1	5	0	0	0	1	100	10K	50	A1
EL1A 12FLASHER	EL4E	LD 1	5	28	0	0	1	28	0	600	P1
EL1A 13HOSE GEAR UNLOCK SW	EL3AEL1A	LD 1	5	0	0	0	1	100	10K	50	A1
EL1A 14NG STEERING CUTOUT 1EL4A		LD 1	5	28	0	0	1	28	0	600	P1
EL1A 15NG STEERING CUTOUT 2EL4A		LD 1	5	28	0	0	1	28	0	600	P1
EL1A 16FEEDBACK TRANSDUCER	EL1A	LA 9	5	49	0	0	AC	49	10K	0	AC1
EL1A 17NG STEERING AMP	EL1A	LA 9	5	15	0	0	DC	15	5K	0	AC1
EL1A 18EXT PAR REMOTE CONT	EL4A	LD 1	5	28	0	0	1	28	0	600	P1
EL1A 19EPP DOOR SWITCH S238EL4BEL4B		LD 1	5	28	0	0	1	28	0	150	P1
EL1A 20FIRE DETECTION CONT1EL2A		LD 1	5	28	0	0	1	28	0	600	P1
EL1A 21FIRE DETECTION CONT2EL2A		LD 1	5	5	0	0	1	5	0	500	P1
EL1A 22INTERCOM STATION	EL1A	LD 1	5	0	0	0	1	100	10K	50	A1
EL1A 23MT-7630/APN-154 RT	EL2C	LD 1	5	12	0	0	1	12	0	600	P1
EL1A 24GUN CONTROL UNIT 1	EL1A	LD 1	5	28	0	0	1	28	0	150	P1
EL1A 25GUN CONTROL UNIT 2	EL1A	LD 1	5	28	0	0	1	28	0	150	P1
EL1A 26GUN CONTROL UNIT 2	EL1A	LD 1	5	28	0	0	1	28	0	150	P1



EL1A 27LAST ROUND SWITCH 1 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 28LAST ROUND SWITCH 2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 29GUN CONTROL BOX 1 EL1A	LD 1 5 5500 0 85 5 0 500 P1
EL1A 30GUN CONTROL BOX 2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 31LAST ROUND BYPASS 1 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 32LAST ROUND BYPASS 2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 33GUN GAS PURGE VALVE EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 34GAS PURGE DOOR INTEREL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 35RELAY ASSY A272-A2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 36MAGNETIC PICKUP EL1A	LA 8 10 70 0 0 AC 70 20K 0 AC1
EL1A 37SAFE (GUN FIRE HOLD)CM2A	LD 1 5 28 0 0 1 28 0 600 P1
EL1A 38SAFE (NOSE GEAR DNR)CM2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 110X LOW LEVEL SIGNALFL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 2101 HOT WARNING EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 301L QUANTITY WARN EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 4WHL/FLAP WRN DIS EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 5ANGLE-OF-ATTACK ADUCEL2A	LA13 5 4 0 0 DC 4 5K 0 DC1
EL2A 6ANGLE-OF-ATTACK IND1EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 7ANGLE-OF-ATTACK IND2EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 8ANGLE-OF-ATTACK IND3EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 9ANGLE-OF-ATTACK IND4EL1A	LD 1 5 0 0 0 1 100 10K 200 A1
EL2A 10INT-EXT LT DIM PNL 1EL3B	LD 1 5 5500 0 85 5 0 500 P1
EL2A 11INT-EXT LT DIM PNL 2EL3A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 12INT-EXT LT DIM PNL 3EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 13INT-EXT LT DIM PNL 4EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 14INT-EXT LT DIM PNL 5EL3A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 15INT-EXT LT DIM PNL 6EL3B	LD 1 5 5500 0 85 5 0 500 P1
EL2A 16INT-EXT LT DIM PNL 7EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 17INT-EXT LT DIM PNL 8EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 18INT-EXT LT DIM PNL 9EL3B	LD 1 5 5500 0 85 5 0 500 P1
EL2A 19INT-EXT LT DIM PNL10EL3A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 20DIMMING CONTROL EL2C	LD 1 5 28 0 0 1 28 0 150 P1
EL2A 21MASTER ARM SWITCH EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 15UIT FLOW CONTROL EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 25UIT TEMP SELECT EL1A	LA 8 512.6 0 0 DC12.6 2K 0 DC1
EL2B 3BATTERY SWITCH EL2B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 4CRANK SWITCH EL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 5STARTER ABORT SW EL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 6AIR IGNITE SWITCH EL5A	LD 1 5 36 0 0 1 36 0 600 P1
EL2B 7ANTI-ICE SW (ENGINE)EL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 8GEAR HANDLE SWITCH EL4AEL4A	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 9DN-LKD EMER RELEASE EL2B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 10GEAR HANDLE UP EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 11GEAR HANDLE DOWN EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 12GEAR HANDLE SWITCH EL4DFC4AEL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 13ANTI-SKID SWITCH S5 EL1AEL2B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 14STBY ATT ERECT OFF EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 15STBY ATT ERECT ON EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 16MASTER GENERATOR SW1EL4B	LD 1 5 0 0 0 1 100 10K 200 A1
EL2B 17MASTER GENERATOR SW2EL4B	LD 1 5 0 0 0 1 100 10K 200 A1
EL2B 18MASTER GENERATOR SW3EL4B	LD 1 5 0 0 0 1 100 10K 200 A1
EL2B 19BATTERY SWITCH EL4A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 20EMERGENCY GEN SW 1 EL4A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 21EMERGENCY GEN SW 2 EL4A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 22EMERGENCY GEN SW 3 EL4B	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 23EXT LIGHTS SWITCH 1 EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 24EXT LIGHTS SWITCH 2 EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 25LAND/TAXI LT SW S248EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 26LAND/TAXI LT KY K304EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 27PRESS-TO-TALK SWITCHEL2HEL2HEL2C	LD 1 5 0 0 0 1 100 10K 50 A1

EL1A 27LAST ROUND SWITCH 1 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 28LAST ROUND SWITCH 2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 29GUN CONTROL BOX 1 EL1A	LD 1 5 5500 0 85 5 0 500 P1
EL1A 30GUN CONTROL BOX 2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 31LAST ROUND BYPASS 1 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 32LAST ROUND BYPASS 2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 33GUN GAS PURGE VALVE EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 34GAS PURGE DOOR INTEREL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 35RELAY ASSY A272-A2 EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL1A 36MAGNETIC PICKUP EL1A	LA 8 10 70 0 0 AC 70 20K 0 AC1
EL1A 37SAFE (GUN FIRE HOLD)CM2A	LD 1 5 28 0 0 1 28 0 600 P1
EL1A 38SAFE (NOSE GEAR UNLK)CM2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 1LOX LOW LEVEL SIGNALDEL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 210T HOT WARNING EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 301L QUANTITY WARN EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 4WHL/FLAP WRN LTS EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 5ANGLE-OF-ATTACK ADUCEL2A	LA13 5 4 0 0 DC 4 5K 0 DC1
EL2A 6ANGLE-OF-ATTACK IND1EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 7ANGLE-OF-ATTACK IND2EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 8ANGLE-OF-ATTACK IND3EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2A 9ANGLE-OF-ATTACK IND4EL2A	LD 1 5 0 0 0 1 100 10K 200 A1
EL2A 10INT-EXT LT DIM PNL 1EL3B	LD 1 5 5500 0 85 5 0 500 P1
EL2A 11INT-EXT LT DIM PNL 2EL3A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 12INT-EXT LT DIM PNL 3EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 13INT-EXT LT DIM PNL 4EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 14INT-EXT LT DIM PNL 5EL3A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 15INT-EXT LT DIM PNL 6EL3B	LD 1 5 5500 0 85 5 0 500 P1
EL2A 16INT-EXT LT DIM PNL 7EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 17INT-EXT LT DIM PNL 8EL5A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 18INT-EXT LT DIM PNL 9EL3B	LD 1 5 5500 0 85 5 0 500 P1
EL2A 19INT-EXT LT DIM PNL10EL3A	LD 1 5 5500 0 85 5 0 500 P1
EL2A 20DIMMING CONTROL EL2C	LD 1 5 28 0 0 1 28 0 150 P1
EL2A 21MASTER ARM SWITCH EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 15UIT FLOW CONTROL EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 25UIT TEMP SELECT EL1A	LA 8 512.6 0 0 DC12.6 2K 0 DC1
EL2B 3BATTERY SWITCH EL2B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 4CRANK SWITCH EL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 5STARTER ABORT SW EL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 6AIR IGNITE SWITCH EL5A	LD 1 5 36 0 0 1 36 0 600 P1
EL2B 7ANTI-ICE SW (ENGINE)EL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 8GEAR HANDLE SWITCH EL4AEL4A	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 9DN-LKD EMER RELEASE EL2B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 10GEAR HANDLE UP EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 11GEAR HANDLE DOWN EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 12GEAR HANDLE SWITCH EL4DFC4AEL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 13ANTI-SKID SWITCH S5 EL1AEL2B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 14STBY ATT ERECT OFF EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 15STBY ATT ERECT ON EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 16MASTER GENERATOR SW1EL4B	LD 1 5 0 0 0 1 100 10K 200 A1
EL2B 17MASTER GENERATOR SW2EL4B	LD 1 5 0 0 0 1 100 10K 200 A1
EL2B 18MASTER GENERATOR SW3EL4B	LD 1 5 0 0 0 1 100 10K 200 A1
EL2B 19BATTERY SWITCH EL4A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 20EMERGENCY GEN SW 1 EL4A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 21EMERGENCY GEN SW 2 EL4A	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 22EMERGENCY GEN SW 3 EL4B	LD 1 5 28 0 0 1 28 0 150 P1
EL2B 23EXT LIGHTS SWITCH 1 EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 24EXT LIGHTS SWITCH 2 EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 25LAND/TAXI LT SW S248EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 26LAND/TAXI LT NY K304EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2B 27PRESS-TO-TALK SWITCHEL2BEL2BEL2C	LD 1 5 0 0 0 1 100 10K 50 A1



EL2B 28INTERCOM SET CONT 1 EL4A	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 29INTERCOM SET CONT 2 EL2B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 30INTERCOM SET CONT 3 EL2B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2B 31ANTI-ICE SWITCH EL1A	LD 5 1 5500 0 85 5 0 500 P1
EL2B 32AZIMUTH SLEW COMP1	LA10 25 8 0 0 DC 8 1K 0 DC1
EL2B 33ELEVATION SLEW COMP1	LA10 25 8 0 0 DC 8 1K 0 DC1
EL2B 34SALVO JETTISON NO.1 COMP1	LD 1 20 28 0 0 1 28 0 600 P1
EL2B 35SALVO JETTISON NO.2 COMP1	LD 1 20 28 0 0 1 28 0 600 P1
EL2B 36SALVO JETTISON CM2B	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 1WINGFOLD SWITCH EL2CEL2C	LD 1 5 28 0 0 1 28 0 150 P1
EL2C 2SEAT ADJUSTMENT EL2C	LD 1 5 5500 0 85 5 0 500 P1
EL2C 3CANOPY LOCK EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 4RAIN REPLEMENT SW EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL2C 5LOX LOW LEVEL WARN EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 6COCKPIT AIR TEMP EL1A	LA 8 5 12 0 0 DC 12 2K 0 DC1
EL2C 7ARRESTING GR HANDLE EL2CEL4D	LD 1 5 28 0 0 1 28 0 150 P1
EL2C 8ANTI-COLLISION LT S1EL2A	LD 1 5 5500 0 85 5 0 500 P1
EL2C 9ANTI-COLLISION LT S2EL2A	LD 1 5 5500 0 85 5 0 500 P1
EL2C 10FORMATION LIGHT SW 1EL2A	LD 1 5 5500 0 85 5 0 500 P1
EL2C 11FORMATION LIGHT SW 2EL2A	LD 1 5 5500 0 85 5 0 500 P1
EL2C 12FORMATION LIGHT SW 3EL2A	LD 1 5 5500 0 85 5 0 500 P1
EL2C 13FORMATION LIGHT SW 4EL2A	LD 1 5 5500 0 85 5 0 500 P1
EL2C 14TAIL POSITION LT SW1EL2A	LD 1 5 5500 0 85 5 0 500 P1
EL2C 15TAIL POSITION LT SW2EL2A	LD 1 5 5500 0 85 5 0 500 P1
EL2C 16TAIL POSITION LT SW3EL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 17WING POSITION LT SW1EL2A	LD 1 5 5500 0 85 5 0 500 P1
EL2C 18WING POSITION LT SW2EL2A	LD 1 5 5500 0 85 5 0 500 P1
EL2C 19NONFLT INST LTS CONTROL2A	LA 7 5 3 0 0 DC 3 1K 0 DC1
EL2C 20FLT INST LTS CONTROL2A	LA 7 5 3 0 0 DC 3 1K 0 DC1
EL2C 21CONSOLE LTS CONTROL EL2A	LA 7 5 3 0 0 DC 3 1K 0 DC1
EL2C 22WHITE FLOOD LTS CONTROL2A	LA 7 5 3 0 0 DC 3 1K 0 DC1
EL2C 23AUX FLOOD LTS CONT BEL2C	LD 1 5 28 0 0 1 28 0 150 P1
EL2C 24AUX FLOOD LTS CONT BEL2A	LD 1 5 28 0 0 1 28 0 150 P1
EL2C 25INTR-EXT LTS CONT 1 EL2C	LD 1 5 28 0 0 1 28 0 150 P1
EL2C 26IND LTS TEST SW 1 EL2C	LD 1 5 28 0 0 1 28 0 150 P1
EL2C 27IND LTS TEST SW 2 EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 28IND LTS TEST SW 3 EL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 29IND LTS TEST SW 4 EL2A	LD 1 5 0 0 0 1 100 10K 50 A1
EL2C 30IND LTS TEST SW 5 EL2A	LD 1 5 0 0 0 1 100 10K 50 A1
EL2C 31INTR-EXT LTS CONT 2 EL2A	LD 1 5 28 0 0 1 28 0 150 P1
EL2C 32INTR-EXT LTS CONT 3 EL2A	LA 7 5 3 0 0 DC 3 1K 0 DC1
EL2C 33INTR-EXT LTS CONT 4 EL2A	LA 7 5 3 0 0 DC 3 1K 0 DC1
EL2C 34INTR-EXT LTS CONT 5 EL2A	LD 1 5 28 0 0 1 28 0 150 P1
EL2C 35C-7940/ARC CONTROL 1EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 36C-7940/ARC CONTROL 2EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 37RE978/ARC HY ASSY 1 EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 38RE978/ARC HY ASSY 2 EL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 39RE978/ARC HY ASSY 3 EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL2C 40C-4419/APN-154 CONT1EL1A	LD 1 5 28 0 0 1 28 0 600 P1
EL2C 41C-4419/APN-154 CONT2EL1A	LD 1 5 12 0 0 1 12 0 600 P1
EL2C 42C-4419/APN-154 CONT3EL1A	LD 1 5 12 0 0 1 12 0 600 P1
EL2C 43C-4419/APN-154 CONT4EL1A	LD 1 5 12 0 0 1 12 0 600 P1
EL2C 44ANGLE OF ATTACK COMP1	LA12 50 4 0 0 DC 4 1K 0 DC1
EL2C 45ANGLE OF ATTACK COMP1	LA12 25 14 0 0 DC 14 5K 0 DC1
EL3C 1LEADING EDGE DOWN SWEL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL4A 1WEIGHT OFF GEAR EL1A	LD 1 5 28 0 0 1 28 0 600 P1
EL4A 2WEIGHT-ON-GEAR EL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL4A 3TEMP LIMITER RELAY EL4AEL5A	LD 1 5 28 0 0 1 28 0 600 P1
EL4A 4WEIGHT OFF GEAR HYKREL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL4A 5SEC DC BUS HY K12 EL4BEL2B	LD 1 5 28 0 0 1 28 0 150 P1

EL4A 6LANDING GEAR NO.1 RYEL2CEL4AEL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL4A 7WT-ON-GEAR RY K11 EL4D	LD 1 5 28 0 0 1 28 0 600 P1
EL4A 8LANDING GEAR RELAY 1EL2H	LD 1 5 28 0 0 1 28 0 600 P1
EL4A 9LANDING GEAR RELAY 2EL2H	LD 1 5 28 0 0 1 28 0 600 P1
EL4A 10DECK COMPRESS RELAY EL2BEL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL4A 11WEIGHT OFF GEAR RYK8EL1A	LD 1 5 28 0 0 1 28 0 600 P1
EL4A 12NG STEERING PC RY EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 10DIFF PRESSURE SWITCHEL4H	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 2CUMP DOOR SWITCH EL4B	LD 1 5 0 0 0 1 100 10K 40 A1
EL4B 3GEAR NOT DOWN-LKD EL4A	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 4WHL/FLAP WARNING RY EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 5WHL/FLAP WARNING RY EL1A	LD 1 5 0 0 0 1 100 10K 50 A1
EL4B 6WEIGHT OFF GEAR RY EL4B	LD 1 5 0 0 0 1 100 10K 50 A1
EL4B 7ANTIISKID ADVISORY EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 8ANTIISKID CONTROL EL4D	LA12 50 8 0 0 DC 8 1K 0 DC1
EL4B 9ANTIISKID SHUTOFF EL4D	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 10DISP GYRO ROLL EL2A	LS13 511.8 50 11.8 200 1
EL4B 11DISP GYRO PITCH EL2A	LS13 511.8 50 11.8 200 1
EL4B 12DISP GYRO EL2A	LD 1 5 0 0 0 1 100 10K 50 A1
EL4B 13GENERATOR CONT PNL 1EL2B	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 14GENERATOR CONT PNL 2EL4F	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 15GENERATOR CONT PNL 3EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 16GENERATOR CONT PNL 4EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 17EMER FWR CONT RY K1 EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 18MASTER GEN SW (PCP) EL4B	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 19PRI AC BUS NO.1 RY EL4B	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 20EPP RETRACT TEST SW1EL4BEL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 21EPP EXTENSION RY K13EL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL4B 22EXT LIGHTS CONT K2-1EL2C	LD 1 5 5500 0 85 5 0 500 P1
EL4B 23EXT LIGHTS CONT K2-2EL2C	LD 1 5 5500 0 85 5 0 500 P1
EL4B 24EXT LIGHTS CONT K2-3EL2C	LD 1 5 5500 0 85 5 0 500 P1
EL4B 25LANDING GEAR NO.2 RYEL2B	LD 1 5 28 0 0 1 28 0 600 P1
EL4B 26CAMERA CONTROL 1 EL5A	LA 8 10 15 0 5 AC 15 500 5 AC1
EL4B 27CAMERA CONTROL 2 EL5A	LA 8 10 15 0 5 AC 15 500 5 AC1
EL4B 28CAMERA CONTROL 3 EL5A	LA 8 1044.5 011.5 AC44.5 50011.5 AC1
EL4B 29CAMERA CONTROL 4 EL5A	LA 8 1024.5 014.5 AC24.5 50014.5 AC1
EL4C 1PC1 HYD PRESSURE SW EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 2PC2 HYD PRESSURE SW EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 3PC3 HYD PRESSURE SW EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 4PC1 SYNCHRO XMTX EL2C	LS13 511.8600 11.8 20 1
EL4C 5EMER ACCUM SHUTOFF EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 6WEIGHT-ON-GEAR SW EL4CEL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 7EMER ACCUM TEST SW EL5AEL1AEL1AEL1AEL1A	LD 1 5 28 0 0 1 28 0 150 P1
EL4C 7EMER ACCUM TEST SW EL1AEL1AEL1AEL1A	LD 1 5 28 0 0 1 28 0 150 P2
EL4C 7EMER ACCUM TEST SW EL1A	LD 1 5 28 0 0 1 28 0 150 P3
EL4C 8LEFT GEAR DOWN-LKD EL2BEL4B	LD 1 5 0 0 0 1 100 10K 40 A1
EL4C 9LEFT GEAR UNLOCK SW EL4A	LD 1 5 0 0 0 1 100 10K 50 A1
EL4C 10LEFT WHL SPD SENSOR EL4B	LA11 50 10 0 4 AC 10 5K 4 AC1
EL4C 11LEFT MAIN GEAR UNLK EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4C 12WT-ON-GEAR SW S302 EL4B	LD 1 5 28 0 0 1 28 0 150 P1
EL4D 1PC2 SYNCHRO XMTX EL2C	LS13 511.8600 11.8 20 1
EL4D 2RH GEAR UNLOCK SW FM3C	LD 1 5 28 0 0 1 28 0 150 P1
EL4D 3RIGHT GEAR DOWN-LKD EL2BEL4B	LD 1 5 0 0 0 1 100 10K 40 A1
EL4D 4DECK COMPRESS SWITCHEL4AEL4B	LD 1 5 28 0 0 1 28 0 600 P1
EL4D 5RIGHT GEAR UNLOCK SWEL4A	LD 1 5 0 0 0 1 100 10K 50 A1
EL4D 6RIGHT WHL SPD SENSUREL4B	LA11 50 10 0 4 AC 10 5K 4 AC1
EL4D 7COUNTING ACC ADUCK-1EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4D 8COUNTING ACC ADUCK-2EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4D 9COUNTING ACC ADUCK-3EL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4D 10COUNTING ACC ADUCK-4EL4C	LD 1 5 28 0 0 1 28 0 600 P1



EL4D 11COUNTING ACC XDUCK-SEL4C	LD 1 5 28 0 0 1 28 0 600 P1
EL4F 1CAMERA TEST SWITCH EL4F	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 1PCS SYNCHRO AMTR EL2C	LS13 511.8600 11.8 20 1
EL5A 2MANUAL FUEL SHUTOFF EL5A	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 3DIODE PANEL EL5A	LD 1 5 28 0 0 1 28 0 150 P1
EL5A 4JET FUEL STARTER EL5AEL5AEL2BEL2CLD	LD 1 5 28 0 0 1 28 0 150 P1
EL5A 5ANTI-ICE VALVE EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 6ANTI-ICE INDICATOR EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 7ANTI-ICE FAILURE SW EL5A	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 8ANTI-ICE FAIL/RESET EL5A	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 9TURBINE OUILET PRESS EL2A	LS13 511.8600 11.8 20 1
EL5A 10ENGINE THERMO (TOT) EL2A	LA 7 5.025 0 50 1
EL5A 11OIL QUANTITY XMIT EL2A	MD
EL5A 12LOW OIL PRESS SW EL2A	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 13OIL PRESS AMTR EL2A	LS13 511.8600 11.8 20 1
EL5A 14TACHOMETER GENERATOR EL2A	LA 8 5 22 0 0 AC 22 5K 0 AC1
EL5A 15NG STR INPUT XDUCK EL1A	LA 9 5 43 0 0 AC 43 10K 0 AC1
EL5A 16ARRESTING GR DOWN SW EL2C	LD 1 5 0 0 0 1 100 10K 50 A1
EL5A 17ARK GEAR UP-AND-DND EL2C	LD 1 5 0 0 0 1 100 10K 50 A1
EL5A 18HOOK DOWN LIGHT EL2C	LD 1 5 28 0 0 1 28 0 600 P1
EL5A 19HEAT SENSING CABLE EL2A	LD 1 5 5 0 0 1 5 0 500 P1
EL5A 20CAMERA 1 EL4B	LA 8 10 8 0 0 AC 8 5K 0 AC1
EL5A 21CAMERA 2 EL4B	LA 8 10 10 0 0 AC 10 10K 0 AC1
FC2A 1ROLL STICK FORCE CH1FC4B	LA12 50 .2 0 0 AC .2 200 0 AC1
FC2A 2ROLL STICK FORCE CH2FC4B	LA12 50 .2 0 0 AC .2 200 0 AC1
FC2A 3ROLL TRIM FC4A	LD 1 50 28 0 0 1 28 0 600 P1
FC2A 4PITCH STICK FORCE 1 FC4A	LA12 50 .75 0 0 AC .75 600 0 AC1
FC2A 5PITCH STICK FORCE 2 FC4A	LA12 50 .75 0 0 AC .75 600 0 AC1
FC2A 6PITCH TRIM FC4B	LD 1 50 28 0 0 1 28 0 600 P1
FC2B 1FLAP HANDLE DOWN SW FC4AFC4A	LD 1 5 28 0 0 1 28 0 600 P1
FC2B 2TE FLAP UP REEF SW FC4A	LD 1 5 28 0 0 1 28 0 600 P1
FC2B 3TE FLAP DOWN REEF SWFC4AFC4F	LD 1 5 28 0 0 1 28 0 150 P1
FC2B 4FLAP HANDLE ISU FC2B	LD 1 5 28 0 0 1 28 0 600 P1
FC2B 5SEMER FLAP SW S204 FC1A	LD 1 5 28 0 0 1 28 0 150 P1
FC2B 6SPEED BRAKE OPEN FC4A	LD 1 5 28 0 0 1 28 0 600 P1
FC2B 7SPEED BRAKE CLOSE FC4A	LD 1 5 28 0 0 1 28 0 600 P1
FC2B 8ATTITUDE ENGAGE FC4B	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 9CONTROL AUG ENGAGE FC4B	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 10HEADING ENGAGE FC4B	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 11READING SEL ENGAGE FC4B	LD 1 10 28 0 0 1 28 0 600 P1
FC2B 12GAIN CHANGE L/C CH1 FC4B	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 13GAIN CHANGE L/C CH2 FC4B	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 14RATE SELF TEST FC4B	LD 1 10 28 0 0 1 28 0 600 P1
FC2B 15MONITOR SELF TEST FC4B	LD 1 10 28 0 0 1 28 0 600 P1
FC2B 16ATTITUDE ENGAGE CH 1FC4A	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 17ATTITUDE ENGAGE CH 2FC4A	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 18CONT AUG ENGAGE FC4A	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 19GAIN CHANGE L/C CH 1FC4A	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 20GAIN CHANGE L/C CH 2FC4A	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 21RATE/ACCEL SELF TESTFC4A	LD 1 10 28 0 0 1 28 0 600 P1
FC2B 22MONITOR SELF TEST FC4A	LD 1 10 28 0 0 1 28 0 600 P1
FC2B 23ATTITUDE SELF TEST FC4A	LD 1 10 28 0 0 1 28 0 600 P1
FC2B 24IAW TRIM CH 1 FC4A	LA12 50 13 0 0 AC 13 5K 0 AC1
FC2B 25IAW TRIM CH 2 FC4A	LA12 50 13 0 0 AC 13 5K 0 AC1
FC2B 26STAB ENGAGE FC4A	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 27GAIN CHANGE L/C CH 1FC4A	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 28GAIN CHANGE L/C CH 2FC4A	LD 1 25 28 0 0 1 28 0 600 P1
FC2B 29RATE ACCEL SELFTEST FC4A	LD 1 10 28 0 0 1 28 0 600 P1
FC2B 30MONITOR SELFTEST FC4A	LD 1 10 28 0 0 1 28 0 600 P1
FC3A 1LEAD FLAP UP LK S4701FC1AFC3AFC2B	LD 1 5 0 0 0 1 100 10K 50 A1

FC3A	2LEAD FLAP UPLK SW703FC3AFC1A	LD 1	5	0	0	0	1	100	10K	50	A1
FC3A	3LEAD FLAP UPLK SW801FC1AFC3A	LD 1	5	0	0	0	1	100	10K	50	A1
FC3A	4LEAD FLAP UPLK SW803FC1AFC3B	LD 1	5	0	0	0	1	100	10K	50	A1
FC3A	5LE FLAP SYNCHRO XMTFC2B	LS13	511.8600					11.8	20		1
FC3A	6LE FLAP DOWN SW S707FC2B	LD 1	5	0	0	0	1	100	10K	50	A1
FC3B	1LEAD FLAP UPLK SW704FC1AFC3B	LD 1	5	0	0	0	1	100	10K	50	A1
FC3B	2LEAD FLAP UPLK SW702FC1AFC3B	LD 1	5	0	0	0	1	100	10K	50	A1
FC3B	3LEAD FLAP UPLK SW802FC1AFC3B	LD 1	5	0	0	0	1	100	10K	50	A1
FC4A	1LATCHING HY PNL K8-1FC4F	LD 1	5	28	0	0	1	28	0	150	P1
FC4A	2LATCHING HY PNL K8-2FC4F	LD 1	5	28	0	0	1	28	0	150	P1
FC4A	3SPEED BRAKE HY K6-1 FC4D	LD 1	5	28	0	0	1	28	0	150	P1
FC4A	4SPEED BRAKE HY K6-2 FC4D	LD 1	5	28	0	0	1	28	0	150	P1
FC4A	5ROLL ACT COMMAND CH1FC4A	LA12	50	5	0	0	DC	5	600	0	DC1
FC4A	6ROLL ACT COMMAND CH2FC4A	LA12	50	5	0	0	DC	5	600	0	DC1
FC4A	7ROLL ACT POSITION FC2A	LA12	10	5	0-2.5	DC		5	5K-2.5	DC1	
FC4A	8VERSINE THETA CH 1 FC4A	LA12	50	13	0	0	AC	13	1K	0	AC1
FC4A	9VERSINE THETA CH 2 FC4A	LA12	50	13	0	0	AC	13	1K	0	AC1
FC4A	10ROLL FAIL COMP2	LD 1	10	28	0	0	1	28	0	600	DC1
FC4A	11BEEP TRIM FC4B	LA 2	50	36	0	0	AC	36	5K	0	AC1
FC4A	12NORMAL ACCEL CH 1 FC4A	LA12	50	7	0	-2	AC	7	1K	-2	AC1
FC4A	13NORMAL ACCEL CH 2 FC4A	LA12	50	7	0	-2	AC	7	1K	-2	AC1
FC4A	14VERSINE ROLL/PITCH 1FC4A	LA12	50	13	0	0	AC	13	5K	0	AC1
FC4A	15VERSINE ROLL/PITCH 2FC4A	LA12	50	13	0	0	AC	13	5K	0	AC1
FC4A	16PITCH BEEP VERNIER FC4A	LD 1	50	28	0	0	1	28	0	600	P1
FC4A	17PITCH ACTUATOR CMD 1FC5A	LA12	50	5	0	0	DC	5	600	0	DC1
FC4A	18PITCH ACTUATOR CMD 2FC5A	LA12	50	5	0	0	DC	5	600	0	DC1
FC4A	19AUTO TRIM FC4A	LA12	50	17	0	0	AC	17	5K	0	AC1
FC4A	20YAW ACT CMD CH 1 FC5A	LA12	50	5	0	0	DC	5	600	0	DC1
FC4A	21YAW ACT CMD CH 2 FC5A	LA12	50	5	0	0	DC	5	600	0	DC1
FC4A	22YAW ACT POSITION FC2A	LA12	50	5	0-2.5	DC		5	5K-2.5	DC1	
FC4B	1ROLL RATE CHANNEL 1 FC4B	LA12	50	5	0	0	AC	5	1K	0	AC1
FC4B	2ROLL RATE CHANNEL 2 FC4B	LA12	50	5	0	0	AC	5	1K	0	AC1
FC4B	3ROLL RATE SPD MON 1 FC4B	LA12	50	.3	0	0	AC	.3	300	0	AC1
FC4B	4ROLL RATE SPD MON 2 FC4B	LA12	50	.3	0	0	AC	.3	300	0	AC1
FC4B	5PITCH RATE CH 1 FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC4B	6PITCH RATE CH 2 FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC4B	7PITCH ATTITUDE FC4A	LS13	5011.8600					11.8	20		1
FC4B	8PITCH RATE SPD MON 1FC4A	LA12	10	.3	0	0	AC	.3	50	0	AC1
FC4B	9PITCH RATE SPD MON 2FC4A	LA12	10	.3	0	0	AC	.3	50	0	AC1
FC4B	10PITCH RT SELF TEST 1FC4A	LD 1	10	28	0	0	1	28	0	600	P1
FC4B	11PITCH RT SELF TEST 2FC4A	LD 1	10	28	0	0	1	28	0	600	P1
FC4B	12YAW RATE CH 1 FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC4B	13YAW RATE CH 2 FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC4B	14LATERAL ACCELERATIONFC4A	LA12	50	3.6	0-1.8	AC	3.6	1K-1.8	AC1		
FC4B	15YAW RATE SPD MON CH1FC4A	LA12	50	.3	0	0	AC	.3	50	0	AC1
FC4B	16YAW RATE SPD MON CH2FC4A	LA12	50	.3	0	0	AC	.3	50	0	AC1
FC4B	17YAW RATE SELFTEST 1 FC4A	LD 1	25	28	0	0	1	28	0	600	P1
FC4B	18YAW RATE SELFTEST 2 FC4A	LD 1	25	28	0	0	1	28	0	600	P1
FC4B	19PITCH TRIM BEEP FC5A	LA12	50	5	0	0	DC	5	600	0	DC1
FC4C	1WEIGHT ON GEAR FC4BFC4AFC4A	LD 1	10	28	0	0	1	28	0	600	P1
FC4D	1ROLL FAIL FC4B	LD 1	10	28	0	0	1	28	0	600	P1
FC4D	2ROLL HYD FC4B	LD 1	50	28	0	0	1	28	0	600	P1
FC4D	3ROLL RATE SELFTEST 1FC4A	LD 1	10	28	0	0	1	28	0	600	P1
FC4D	4ROLL RATE SELFTEST 2FC4A	LD 1	10	28	0	0	1	28	0	600	P1
FC4F	1SPEED BRAKE POSIT SWFC2C	LD 1	5	28	0	0	1	28	0	600	P1
FC4F	2SPEED BRAKE POS XMTFC2A	LS13	511.8600					11.8	20		1
FC4F	3ROLL HYD PRESS FC2B	LD 1	25	28	0	0	1	28	0	600	P1
FC4F	3ROLL HYD PRESS COMP2	LD 1	25	28	0	0	1	28	0	600	P2
FC5A	1ROLL FOLLOW-UP CH 1 FC4B	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	2ROLL FOLLOW-UP CH 2 FC4B	LA12	50	5	0	0	AC	5	1K	0	AC1



FC5A	3ROLL MONITOR CH 1	FC4B	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	4ROLL MONITOR CH 2	FC4B	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	5PITCH FOLLOW-UP CH 1	FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	6PITCH FOLLOW-UP CH 2	FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	7PITCH MONITOR CH 1	FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	8PITCH MONITOR CH 2	FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	9PITCH HYD	FC4A	LD	1	50	28	0	0	1	28	0	600 P1
FC5A	10AILERON-TO-RODDER	1FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	11AILERON-TO-RODDER	2FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	12IAW FOLLOW-UP CH 1	FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	13IAW FOLLOW-UP CH 2	FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	14IAW FOLLOW-UP MON 1	FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	15IAW FOLLOW-UP MON 2	FC4A	LA12	50	5	0	0	AC	5	1K	0	AC1
FC5A	16IAW HYD	FC4A	LD	1	50	28	0	0	1	28	0	600 P1
FC5A	17RODDER CENTER	FC4A	LD	1	50	28	0	0	1	28	0	600 P1
FC5A	18IAW HYD PRESS	FC2B	LD	1	25	28	0	0	1	28	0	600 P1
FC5A	18IAW HYD PRESS	CUMP2	LD	1	25	28	0	0	1	28	0	600 P2
FC5A	19PITCH HYD PRESS	FC2B	LD	1	25	28	0	0	1	28	0	600 P1
FC5A	19PITCH HYD PRESS	CUMP2	LD	1	25	28	0	0	1	28	0	600 P2
FM1A	1FUEL XFER THM CONT 1	FM5A	LD	1	5	0	0	0	1	100	10K	50 A1
FM1A	2FUEL XFER THM CONT 2	FM5A	LD	1	5	0	0	0	1	100	10K	50 A1
FM1A	3FUEL XFER THM CONT 3	FM4A	LD	1	5	28	0	0	1	28	0	600 P1
FM1A	4AR DOOR UP RELAY 1	FM1A	LD	1	5	5500	0	0	5	0	500	P1
FM1A	5AR DOOR UP RELAY 2	FM1A	LD	1	5	28	0	0	1	28	0	600 P1
FM1A	6AR DOOR UP RELAY 3	FM3C	LD	1	5	28	0	0	1	28	0	600 P1
FM1A	7SIGNAL AMP (HEAD)	FM1AFM4A	LD	1	5	28	0	0	1	28	0	600 P1
FM1A	8DOOR DOWN RELAY	FM2A	LD	1	5	28	0	0	1	28	0	600 P1
FM1A	9SIGNAL AMP (RDY/LAT)	FM4A	LD	1	5	28	0	0	1	28	0	600 P1
FM1A	10SIGNAL AMP (LAICED)	FM4AFM2AFM4A	LD	1	5	28	0	0	1	28	0	600 P1
FM1A	11AR DISCONNECT SW	FM4A	LD	1	5	28	0	0	1	28	0	600 P1
FM1A	12SIGNAL AMP (DISC)	FM3C	LD	1	5	28	0	0	1	28	0	600 P1
FM1A	13AMP SWITCH A234-38	FM1AFM4A	LD	1	5	28	0	0	1	28	0	600 P1
FM1A	14EXT TANK CAP SIM ST11D3E		LD	1	5	0	0	0	1	100	10K	50 A1
FM1A	15EXT TANK CAP SIM ST13D3G		LD	1	5	0	0	0	1	100	10K	50 A1
FM1A	16EXT TANK CAP SIM ST16D3J		LD	1	5	0	0	0	1	100	10K	50 A1
FM1A	17EXT TANK CAP SIM ST18D3L		LD	1	5	0	0	0	1	100	10K	50 A1
FM1A	18EXT CAP SIM MON 1	FM1A	LA13	5	10	0	0	AC	10	10K	10	AC1
FM1A	19EXT CAP SIM MON 2	FM1A	LA13	5	10	0	0	AC	10	10K	10	AC1
FM1A	20EXT CAP SIM MON 3	FM1A	LA13	5	10	0	0	AC	10	10K	10	AC1
FM1A	21EXT CAP SIM MON 4	FM1A	LA13	5	10	0	0	AC	10	10K	10	AC1
FM1A	22LOW LEVEL IND SUMP	FM2B	LD	1	5	28	0	0	1	28	0	600 P1
FM1A	23LOW LEVEL IND FUEL	FM2B	LD	1	5	28	0	0	1	28	0	600 P1
FM2A	1FUEL QUANT SUMP TANKFM4B		LA	9	5	1.5	0	0	AC	1.5	1K	0 AC1
FM2A	2FUEL QUANT R FWD TANKFM4B		LA	9	5	1.5	0	0	AC	1.5	1K	0 AC1
FM2A	3FUEL QUANT L FWD TANKFM4A		LA	9	5	1.5	0	0	AC	1.5	1K	0 AC1
FM2B	1FUEL CONTROL SWITCH	FM2CFM2CFM5A	LD	1	5	28	0	0	1	28	0	600 P1
FM2B	2FUEL DUMP SW-DUMP	FM3CFM3C	LD	1	5	28	0	0	1	28	0	150 P1
FM2B	3FUEL DUMP SW- OFF	FM3CFM3C	LD	1	5	28	0	0	1	28	0	150 P1
FM2B	4WING FUEL AFER SW	FM2B	LD	1	5	28	0	0	1	28	0	600 P1
FM2B	5REL HAND SW 5267 ON	FM4A	LD	1	5	28	0	0	1	28	0	600 P1
FM2B	6REL HAND SW 5268 ON	FM4A	LD	1	5	28	0	0	1	28	0	600 P1
FM2B	7REL HAND SW 5268 OFF	FM1A	LD	1	5	28	0	0	1	28	0	600 P1
FM2B	8AR RESET SW 5266-1	FM2B	LD	1	5	28	0	0	1	28	0	600 P1
FM2B	9AR RESET SW 5266-2	FM2B	LD	1	5	28	0	0	1	28	0	600 P1
FM2B	10AR RESET SW 5266-3	FM4A	LD	1	5	28	0	0	1	28	0	600 P1
FM2B	11FUEL TANK MONITOR 1	FM2A	LA13	5	10	0	0	AC	10	10K	10	AC1
FM2B	12FUEL TANK MONITOR 2	FM2A	LA13	5	4	0	0	3	AC	4	5K	3 AC1
FM2B	13FUEL TANK MONITOR 3	FM2A	LA13	5	10	0	0	AC	10	10K	10	AC1
FM3C	1AR DOOR UP SWITCH	FM1A	LD	1	5	28	0	0	1	28	0	600 P1
FM3C	2AR DOOR DN SWITCH	FM1A	LD	1	5	28	0	0	1	28	0	600 P1

FM3C	3FUEL PRESSURE SWITCH	FM3C	LD	1	5	28	0	0	1	28	0	600	P1
FM3C	4INDUCT COIL, AK REC	FM4A	LD	1	5	28	0	0	1	28	0	600	P1
FM3C	5AK RECEIPT NOZZLE	LD	1	5	28	0	0	1	28	0	600	P1	
FM3C	6AK RECEIPT HOLDING	FM3C	LD	1	5	28	0	0	1	28	0	600	P1
FM3C	7WING TANK QUANTITY	1FM2B	LA	13	5	10	0	10	AC	10	10K	10	AC1
FM3C	8WING TANK QUANTITY	2FM2B	LA	13	5	10	0	10	AC	10	10K	10	AC1
FM4A	1THM 1 RT FWD TANK	1 FM1A	LA	4	5	5.7	0	1.3	DC	5.7	1K	1.3	DC1
FM4A	2THM 1 RT FWD TANK	2 FM1A	LA	4	5	5.7	0	1.3	DC	5.7	1K	1.3	DC1
FM4A	3THM 2 AFT TANK	1 FM1A	LA	4	5	5.7	0	1.3	DC	5.7	1K	1.3	DC1
FM4A	4THM 2 AFT TANK	2 FM1A	LA	4	5	5.7	0	1.3	DC	5.7	1K	1.3	DC1
FM4A	5AFER RELAY K10-1	FM5A	LD	1	5	28	0	0	1	28	0	600	P1
FM4A	6AFER RELAY K10-2	FM5A	LD	1	5	28	0	0	1	28	0	600	P1
FM4A	7AFER RELAY K5-1	FM5A	LD	1	5	28	0	0	1	28	0	600	P1
FM4A	8AFER RELAY K5-2	FM5A	LD	1	5	28	0	0	1	28	0	600	P1
FM4A	9RELAY A301-K5	FM5A	LD	1	5	0	0	0	1	100	10K	50	A1
FM4A	10AR DIODE CR7	FM4A	LD	1	5	28	0	0	1	28	0	600	P1
FM4A	11AR DIODE CR8	FM4A	LD	1	5	28	0	0	1	28	0	600	P1
FM4A	12LOG GEAR NO 2 RELAY	FM4A	LD	1	5	28	0	0	1	28	0	600	P1
FM4A	13AIR REFUEL RELAY K5	FM1A	LD	1	5	5500	0	0	5	5	0	500	P1
FM4A	14DIODE A351-CR16	FM3C	LD	1	5	28	0	0	1	28	0	600	P1
FM4A	15DIODE A351-CR17	FM4AFM3C	LD	1	5	28	0	0	1	28	0	600	P1
FM4A	16AR OR RELAY	FM2AFM3CFM1AEL4ALD	LD	1	5	28	0	0	1	28	0	600	P1
FM4A	17OVERRIDE RELAY K/	FM4AFM4AFM1A	LD	1	5	28	0	0	1	28	0	600	P1
FM4A	18LEFT FWD FUEL TANK	FM2A	LA	13	5	1.5	0	0	AC	1.5	1K	0	AC1
FM4A	19FUEL QUANT LEFT FWD	FM2B	LA	13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4A	20FUEL QUANT LEFT MID	FM4BFM5A	LA	13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4A	21FUEL QUANT LEFT FWD	FM4B	LA	13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4A	22LEFT FWD THERM 3	FM1A	LA	4	5	13	0	7	DC	13	10K	7	DC1
FM4B	1FUEL TRANSFER ELEC	1FM5A	LD	1	5	28	0	0	1	28	0	150	P1
FM4B	2FUEL TRANSFER ELEC	2FM5A	LD	1	5	28	0	0	1	28	0	150	P1
FM4B	3FUEL TRANSFER ELEC	3FM5A	LD	1	5	28	0	0	1	28	0	150	P1
FM4B	4RELAY A302-K5	FM3C	LD	1	5	28	0	0	1	28	0	150	P1
FM4B	5AIR REFUEL SW STA 1	1D3E	LD	1	5	28	0	0	1	28	0	150	P1
FM4B	6AIR REFUEL SW STA 2	1D3F	LD	1	5	28	0	0	1	28	0	150	P1
FM4B	7AIR REFUEL SW STA 6	1D3J	LD	1	5	28	0	0	1	28	0	150	P1
FM4B	8AIR REFUEL SW STA 8	1D3L	LD	1	5	28	0	0	1	28	0	150	P1
FM4B	9RIGHT FWD FUEL TANK	FM2A	LA	13	5	1.5	0	0	AC	1.5	1K	0	AC1
FM4B	10FUEL QUANT RIGHT MID	FM4BFM4A	LA	13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4B	11FUEL QUANT RIGHT FWD	FM4BFM4A	LA	13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4C	1GND REFUEL SW STA 1	1D3E	LD	1	5	28	0	0	1	28	0	150	P1
FM4C	2GND REFUEL SW STA 3	1D3G	LD	1	5	28	0	0	1	28	0	150	P1
FM4C	3GND REFUEL SW STA 6	1D3J	LD	1	5	28	0	0	1	28	0	150	P1
FM4C	4GND REFUEL SW STA 8	1D3L	LD	1	5	28	0	0	1	28	0	150	P1
FM4E	1SUMP TANK QUANTITY	FM2A	LA	13	5	1.5	0	0	AC	1.5	1K	0	AC1
FM4E	2FUEL QUANT SUMP	FM5A	LA	13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
FM4E	3LOW FUEL WARNING	FM4EFM4A	LA	4	5	3.5	0	10	DC	3.5	10K	10	DC1
FM4E	4SUMP TANK THERM 4	FM1A	LA	4	5	13	0	7	DC	13	10K	7	DC1
FM5A	1FUEL FLOW	FM2A	LA	10	5	5	0	0	AC	5	500	5	AC1
FM5A	2HP FUEL PUMP LOW	1 EL2C	LD	1	5	28	0	0	1	28	0	600	P1
FM5A	3HP FUEL PUMP LOW	2 EL2C	LD	1	5	28	0	0	1	28	0	600	P1
FM5A	4FUEL BOOST PRESS	1 EL2C	LD	1	5	28	0	0	1	28	0	600	P1
FM5A	5LP FUEL PUMP PRESS	2 EL2C	LD	1	5	28	0	0	1	28	0	600	P1
FM5A	6FUEL QUANT AFI	FM4AFM4E	LA	13	5	3.5	0	3.5	AC	3.5	5K	3.5	AC1
COMP1	1ALITUDE (SYNCHRO)	FC4AC06E	LS	13	2011.8	50				11.8	200		1
MP1C	MULTIPROCESSOR OUT	COMP1	LD										1
MP1B	1INNDP DATA IN	COMP1	LD										1
MP1B	2SELF TEST	COMP1	LD	1	5	5	0	0	1	5	0	500	P1
MP1B	3INNDP INTERRUPT	COMP1	LD	1	50	5	0	0	1	5	0	500	P1
MS1A	1BLANKING OUT CHAN 1	NV6A	HD										1
MS1A	2BLANKING OUT CHAN 2	CM1D	HD										1



[illegible]

NV2C 161MS FAIL	COMP1	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 17AUIOCAL INITIATE	COMP1	LD 1 5 0 0 0 1 100 10K 50 A1
NV2C 18A2CA OR MAGNETIC VARCOMP1		LS13 511.8600 11.8 20 1
NV2C 19REDAI CONTROL (D4)	NV2A	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 20AZ GYRO TORQUE	NV2A	LA12 25 8 0 -4 DC 8 5K -4 DC1
NV2C 21D1 + D17	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 22D2 + D9	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 23D3 + D11	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 24D4 + D12	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 25D8	NV2A	LD 1 5 5 0 0 1 5 0 500 P1
NV2C 2628 VOC AIRCRAFT	NV2B	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 27CABLE MONITOR	NV2B	LD 1 5 5500 0 85 5 0 500 P1
NV2C 28BATTERY CONTROL	NV2B	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 29GND ALIGN LIGHT	NV2B	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 30CDA EAC	NV2B	LS13 2511.8600 11.8 20 1
NV2C 31CLUTCH INHIBIT NO.	3NV2E	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 32AZIMUTH CAGE	NV2A	LD 1 5 28 0 0 1 28 0 600 P1
NV2C 33AE SIN LAMBDA	NV2A	LA13 5 30 0 -15 DC 30 5K -15 DC1
NV2D 1MAGNETIC HEADING	NV2C	LS13 2511.8600 11.8 20 1
NV2D 1MAGNETIC HEADING	COMP1	LS13 2511.8600 11.8 20 2
NV3A 10HF RF (RCVR)	CU1A	HA 1
NV3A 20HF RF IN/OUT	CU6G	HA 1
NV3AB 1SHIELD GND	PR3A	PR 1
NV3AB 8GROUND	PR3A	PR 1
NV3AB 14MOTOR CONTROL	NV3B	PR 1
NV3AB 17100HZ EXCITATION 1	NV3B	PR 1
NV3AB 18100HZ EXCITATION 2	NV3B	PR 1
NV3AB 21115V 400HZ	NV3B	1
NV3B 10HF ADF RF (RCVR)	NV3A	HA 1
NV3B 2BEARING TO ADF STA	COMP1	LS13 511.8 50 11.8 200
NV3B1 BBEARING SYNCHRO X	COMP1	LS13 1011.8 50 11.8 200 1
NV3B1 CBEARING SYNCHRO Y	COMP1	1
NV3B1 1KRATE SIGNAL 1	NV3A	PR 1
NV3B1 1KRATE SIGNAL 2	NV3A	PR 1
NV3B1 1115VAC 3PHASE OUT	NV3A	PR 1
NV3B1 PBEARING SYNCHRO Z	PR3A	GND 1
NV3B1 PBEARING SYNCHRO Z	COMP1	GND 2
NV3B1 XPOWER GND	PR3A	PR 1
NV3B2 ADF RF	NV3A	HA 225-399.95MHz 1
NV4A 1TRANSMIT RF	NV4C	HA 1
NV4A 2CRYSTAL SWITCHING	NV4C	HD 1
NV4A 3RANGE	NV4C	LA10 5 26 0 0 DC 26 5K 0 DC1
NV4A 4ALTITUDE	NV4E	LA10 5 26 0 0 DC 26 5K 0 DC1
NV4A 4ALTITUDE	COMP2	LA10 5 26 0 0 DC 26 5K 0 DC2
NV4A 5RELIABILITY	NV4E	LD 1 5 5 3 0 0 5 3 1K P1
NV4A 6BEARING	PS1A	HD 1
NV4C 1TRANSMIT RF	NV4B	HA 1
NV4C 2ALTITUDE MODE	NV4A	LD 1 5 35 0 0 1 35 0 1K P1
NV4D 1RECEIVE RF	NV4A	HA 1
NV4E 1LINEARIZED ALTITUDE 1D5A		LA12 25 25 0 0 DC 25 5K 0 DC1
NV4E 1LINEARIZED ALTITUDE COMP1		LA12 25 25 0 0 DC 25 5K 0 DC2
NV4E 2MODIFIED RELIABILITY1D5C		LD 1 25 5 0 0 1 5 0 500 P1
NV4E 2MODIFIED RELIABILITYCOMP1		LD 1 25 5 0 0 1 5 0 500 P2
NV4F 1SELF TEST	NV4A	LD 1 5 0 0 0 1 100 10K 50 A1
NV5A4 1PDEV +	COMP1	LA06 10 5100-2.5 DC 5 5K-2.5 DC1
NV5A4 1PDEV -	COMP1	MD 1
NV5A4 1MKR BEACON AUDIO	CU3A	AA0418K 1
NV5A4 1VFLAG +	COMP1	LD01 5 2 72 0 2 0 10K P1
NV5A4 1MKR BEACON AUDIO REICU3A		AA0418K 1
NV5A4 1XFLAG -	PR3A	PR 1



[illegible]

NV7B	1DRIFT ANGLE (HUD)	COMP1	LA12	5	30	0	-15	DC	30	6K	-15	DC1
NV7B	2OFFSET MODE	COMP1	LD	1	5	5	0	0	1	5	0	500 P1
NV7B	2STBY, ON, TEST	NV7A	LD	1	5	0	0	0	1	100	10K	10 A1
NV7B	3RADAR BOMB	COMP1	LD	1	5	5	0	0	1	5	0	500 P1
NV7B	3UN	NV7A	LD	1	5	0	0	0	1	100	10K	10 A1
NV7B	4NAV BOMB	COMP1	LD	1	5	5	0	0	1	5	0	500 P1
NV7B	4TEST	NV7A	LD	1	5	0	0	0	1	100	10K	10 A1
NV7B	5TERRAIN FOLLOWING 1	COMP1	LD	1	5	5	0	0	1	5	0	500 P1
NV7B	6TERRAIN FOLLOWING 2	TDSC	LD	1	5	28	0	0	1	28	0	600 P1
NV7B	6TERRAIN FOLLOWING 2	COMP1	LD	1	5	28	0	0	1	28	0	600 P2
NV7B	7NO MODE SELECTED	COMP1	LD	1	5	28	0	0	1	28	0	600 P1
NV7B	8ATTACK MODE SELECTED	NV7B	LD	1	5	28	0	0	1	28	0	600 P1
NV7B	9LANDING MODE	NV7BNV5A	LD	1	5	28	0	0	1	28	0	600 P1
NV7B	9LANDING MODE	COMP1	LD	1	5	28	0	0	1	28	0	600 P2
NV7C	1DRIFT ANALOG	NV7B	LA12	5	13	0	-6.5	DC	13	13K	-6.5	DC1
NV7C	2DRIFT ANGLE	NV7A	LA12	5	13	0	-6.5	DC	13	13K	-6.5	DC1
NV7C	3VG CAL GATE	NV7A	HD									1
NV7C	4ANTENNA GOOD	NV7A	LD	1	5	5	0	0	1	5	0	500 P1
TD1A	1ILLUMINATOR NOT RDY	COMP2	LD	1	5	28	0	0	1	28	0	600 P1
TD1A	21TV FAILED	COMP2	LD	1	5	28	0	0	1	28	0	600 P1
TD1A	3SCENE VIDEO	TD1C	HA									1
TD1B	1STANDBY POWER	TD1A	LD	1	5	28	0	0	1	28	0	600 P1
TD1B	2POWER ON	TD1A	LD	1	5	28	0	0	1	28	0	600 P1
TD1B	3NAKFOR FOV	TD1A	LD	1	5	28	0	0	1	28	0	600 P1
TD1B	4ILLUMINATOR ON	TD1A	LD	1	5	28	0	0	1	28	0	600 P1
TD1B	5BANDPASS FILTER ON	TD1A	LD	1	5	28	0	0	1	28	0	600 P1
TD1B	6DISPLAY CROSSHAIRS	TD1A	LD	1	5	28	0	0	1	28	0	600 P1
TD2AA	3SCAN NO 1 HI	TD2D	PR									1
TD2AA18+12V	UNREG NO 1	TD2D	PR									1
TD2AA20+12V	UNREG NO 2	TD2D	PR									1
TD2AA22+12V	UNREG NO 1	TD2D	PR									1
TD2AA24+12V	UNREG NO 2	TD2D	PR									1
TD2AA26+15V	MISC	TD2D	PR									1
TD2AA30+8V	NO 1	TD2D	PR									1
TD2AA32+8V	NO 1 RMT HI	TD2D	PR									1
TD2AA34+8V	NO 2	TD2D	PR									1
TD2AA36+8V	NO 2 RMT HI	TD2D	PR									1
TD2AA38+20V	CAM	TD2D	PR									1
TD2AA40+20V	RMT HI	TD2D	PR									1
TD2AA43+15VDC	PWM	TD2C	PR									1
TD2AA45+15VDC	PWM	TD2C	PR									1
TD2AA47+15V	MISC	TD2C	PR									1
TD2AB	3SCAN NO 2 HI	TD2D	PR									1
TD2AB	8115VAC PH A DISP PWR	TD2B	PR									1
TD2AB	9115VAC PH B DISP PWR	TD2B	PR									1
TD2AB	10115VAC PH C DISP PWR	TD2B	PR									1
TD2AB	1328VDC ZOOM PWR	TD2D	PR									1
TD2AB	18115VAC PH A COOLER	TD2D	PR									1
TD2AB	19115VAC PH B COOLER	TD2D	PR									1
TD2AB	20115VAC PH C COOLER	TD2D	PR									1
TD2AB	22SCAN SENSE NO 1	TD2D	LD01	10	28	0	0	1	28	0	600	P1
TD2AB	23SCAN SENSE NO 2	TD2D	LD01	10	28	0	0	1	28	0	600	P1
TD2AB	24SCAN SENSE NO 3	TD2D	LD01	10	28	0	0	1	28	0	600	P1
TD2AB	25SCAN SENSE NO 4	TD2D	LD01	10	28	0	0	1	28	0	600	P1
TD2AB	271ACH GATE PULSE	TD2D	JD01	30	28	0	0	1	28	0	600	P1
TD2AB	28TV SCAN LIMIT HI	TD2D	LD01	100	28	0	0	1	28	0	600	P1
TD2AB	30115VAC PH A FAN PWR	TD2D	PR									1
TD2AB	31115VAC PH B FAN PWR	TD2D	PR									1
TD2AB	32115VAC PH C FAN PWR	TD2D	PR									1
TD2AB	3628V-S/C	TD2C	PR									1



TD2AB3728V-ESSEN	TD2C	PR										1
TD2AB44P/S BITE	TD2C	LD01	5	28	0	0	1	28	0	600	P1	
TD2AB46DISP EDGE LIT PWR	TD2B	PR										1
TD2AB47+15V MISC-DISP	TD2B	PR										1
TD2AB4928V OPR PWR	TD2B	PR										1
TD2AB52DISPLAY CHASSIS GND	TD2A	PR										1
TD2B1 MSTBY CONTROL	TD2D	LD01	5	28	0	0	1	28	50	0	01	
TD2B1 MSTBY CONTROL	TD2D	LD01	5	28	0	0	1	28	0	600	P1	
TD2B2 BDISP BITE	TD2C	LD01	5	28	0	0	1	28	0	600	P1	
TD2B2 C28V RTN	TD2A	PR										1
TD2B2 EJUMP	TD2B											1
TD2B2 H+15V MISC-RTN	TD2A	PR										1
TD2B2 U115VAC NEUT DISP PWR	TD2A	PR										1
TD2B2 VCHASSIS GND	TD2A	PR										1
TD2C1 B+15V PWR RTN	TD2A	PR										1
TD2C1 D-15V PWR RTN	TD2A	PR										1
TD2C1 G28V RTN	TD2A	PR										1
TD2C1 MSTBY CMND	TD2A	LD01	5	28	0	0	1	28	0	600	P1	
TD2C1 JOPR CMND	TD2A	LD01	5	28	0	0	1	28	0	600	P1	
TD2C1 KCOOLER CMND	TD2A	LD01	5	28	0	0	1	28	0	600	P1	
TD2C1 LSCAN UNIDE CMND	TD2A	LD01	5	28	0	0	1	28	0	600	P1	
TD2C1 MSTBY CONTROL	TD2A											1
TD2C1 NOPR CONTROL	TD2A											1
TD2C1 UNIDE FOV CMND	TD2D	LD01	5	28	0	0	1	28	0	600	P1	
TD2C1 WFOURTHY CMND	TD2D	LD01	5	28	0	0	1	28	0	600	P1	
TD2C1 XDC RESTORATION CMND	TD2D	LD01	5	28	0	0	1	28	0	600	P1	
TD2C1 YVIDEO CONTROL	TD2D	MA	TRIANG WAVEFORM									1
TD2D1 B+12V UNREG NO 1 RTN	TD2A	PR										1
TD2D1 D+12V UNREG NO 2 RTN	TD2A	PR										1
TD2D1 F-12V UNREG NO 1 RTN	TD2A	PR										1
TD2D1 H-12V UNREG NO 2 RTN	TD2A	PR										1
TD2D1 K+15V MISC-RTN	TD2A	PR										1
TD2D1 M+8V NO 1 RTN	TD2A	PR										1
TD2D1 P+8V NO 1 RMT LO	TD2A	PR										1
TD2D1 S+8V NO 2 RTN	TD2A	PR										1
TD2D1 U+8V NO 2 RMT LO	TD2A	PR										1
TD2D1 W+20V CAM RTN	TD2A	PR										1
TD2D1 Y+20V FMT LO	TD2A	PR										1
TD2D2 U115VAC NEUT COOLER	TD2A	PR										1
TD2D2 U115VAC NEUT FAN PWR	TD2A	PR										1
TD2D2 JCOOLER CMND RTN	TD2A	LD01	5	5	0	0	1	5	0	500	P1	
TD2D2 L28VDC ZOOM PWR RTN	TD2A	PR										1
TD2D2 NNCVR BITE	TD2C	LD01	5	5	0	0	1	5	0	500	P1	
TD2D2 SFOV CMND RTN	TD2C											1
TD2D2 VRTN	TD2C											1
TD2D2 ZCOOLDOWN SENSE	TD2C	LD01	5	5	0	0	1	5	0	500	P1	
TD2D2SFTACH GATE PULSE	TD2A	LD01	30	5	0	0	1	5	0	500	P1	
TD2D2SRTV SCAN LIMIT LO	TD2A											1
TD2D3 1K VIDEO	TD2B	MA	TRIAX VIDEO									1
TD2D4 BSCAN NO 1 LO	TD2A	PR										1
TD2D4 OSCAN NO 2 LO	TD2A	PR										1
TD3A 1ARMAMENT SAFETY DIS	TD3PMS3A	LD01	10	28	0	0	1	28	0	600	P1	
TD3A 1ARMAMENT SAFETY DIS	COMP1	LD01	10	28	0	0	1	28	0	600	P2	
TD3A 2ARMAMENT SAFETY DIS	COMP1	LD01	10	28	0	0	1	28	0	600	P1	
TD3B 1DESTRUCT	TD3EID3L	LD 1	5	28	0	0	1	28	0	600	P1	
TD3B 2RELEASE MODE PAIRS	COMP1	LD01	5	28	0	0	1	28	0	600	P1	
TD3B 3INTERVAL SEL TENS 2	COMP1	LD01	5	5	0	0	1	5	0	500	P1	
TD3B 4INTERVAL SEL TENS 1	COMP1	LD01	5	5	0	0	1	5	0	500	P1	
TD3B 10MODE SELECT SIGNAL	COMP1	LD01	5	28	0	0	1	28	0	600	P1	
TD3B 18RELEASE MODE SIMUL	COMP1	LD01	5	28	0	0	1	28	0	600	P1	

TD3B 19RELEASE MODE PAIRS COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 20QUANTITY SEL TENS 8 COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 21INTERVAL SEL HUND 8COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 22QUANTITY SEL TENS 4 COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 23QUANTITY SEL UNITS 8COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 35QUANTITY SELECT 0 COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 36QUANTITY SEL UNITS 2COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 37QUANTITY COMMON COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 38INTERVAL SEL HUND 2COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 39INTERVAL SEL HUND 1COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 40INTERVAL COMMON COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 41INTERVAL SEL TENS 8 COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 42QUANTITY SEL TENS 2 COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 43QUANTITY SEL TENS 1 COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 56QUANTITY SEL UNITS 4COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 59QUANTITY SEL UNITS 1COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 60INTERVAL SEL TENS 4 COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3B 61INTERVAL SEL HUND 4COMP1	LD01	5	5	0	0	1	5	0	500	P1
TD3C 34SALVO JETTISON COMP1	LD01	20	28	0	0	1	28	0	600	P1
TD3C 61FUSELAGE GUN SEL H1 COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3C 63FUSELAGE GUN SEL H0 COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3C142STA 1 SELECT SWITCH COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3C144STA 1 SEL JETTISON COMP1	LD01	20	28	0	0	1	28	0	600	P1
TD3C145STA 6 SELECT SWITCH COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3C154STA 6 SEL JETTISON COMP1	LD01	20	28	0	0	1	28	0	600	P1
TD3C155STA 2 SELECT SWITCH COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3C156STA 2 SEL JETTISON COMP1	LD01	20	28	0	0	1	28	0	600	P1
TD3C157STA 7 SELECT SWITCH COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3C159STA 7 SEL JETTISON COMP1	LD01	20	28	0	0	1	28	0	600	P1
TD3C160STA 3 SELECT SWITCH COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3C168STA 3 SEL JETTISON COMP1	LD01	20	28	0	0	1	28	0	600	P1
TD3C169STA 6 SELECT SWITCH COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3C170STA 6 SEL JETTISON COMP1	LD01	20	28	0	0	1	28	0	600	P1
TD3C171FUSELAGE STA SEL 1 COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3C172FUSELAGE STA SEL 2 COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3C173STA 4+5 SEL JETTISONCOMP1	LD01	20	28	0	0	1	28	0	600	P1
TD3C181STA 4+5 SEL JETTISONCOMP1	LD01	20	28	0	0	1	28	0	600	P1
TD3C182MASTER ARMAMENT SW MSJA1D3P	LD01	5	28	0	0	1	28	0	600	P1
TD3C182MASTER ARMAMENT SW COMP1	LD01	5	28	0	0	1	28	0	600	P2
TD3C184AUX JETTISON SWITCH COMP1	LD01	20	28	0	0	1	28	0	600	P1
TD3C186SELECT JETTISON COMP1	LD01	20	28	0	0	1	28	0	600	P1
TD3C199FUZE SW OUTPUT 2 COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3C200FUZE SW OUTPUT 1 COMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3E 20STA 1 MULT LOADING COMP1	LD01	5	25	0	0	1	100	10K	80	A1
TD3E 26STA 1 WALL EYE READY COMP1	LD01	5	25	0	0	1	100	10K	80	A1
TD3E 37STA 1 WE FIL POS 1+2COMP1	LD01	5	25	0	0	1	100	10K	80	A1
TD3E 38STA 1 GND INTERLOCK COMP1	LD01	5	25	0	0	1	100	10K	80	A1
TD3E 45STA 1 SPRAY TANK FDCOMP1	LD01	5	28	0	0	1	28	0	600	P1
TD3E 47STA 1 BULLPOP BAIT VCUMPI	LD01	5	5500	0	85	5	0	500	P1	
TD3E 52STA 1 WALL EYE VIDEO COMP1	HA	0	10	8.25	MHZ					
TD3EF 1STA 1 FUEL QUANTITY FM2E	LA13	5	10	0	10	AC	10	10K	10	AC1
TD3F GSTA 2 GND INTERLOCK COMP1	LD01	5	25	0	0	1	100	10K	80	A1
TD3F VSTA 2 WALL EYE VIDEO COMP1	HA	0	10	8.25	MHZ					
TD3F YSTA 2 MULT LOADING COMP1	LD01	5	25	0	0	1	100	10K	80	A1
TD3F ZSTA 2 WE FIL POS 2 COMP1	LD01	5	25	0	0	1	100	10K	80	A1
TD3F SASTA 2 WALL EYE READY COMP1	LD01	5	25	0	0	1	100	10K	80	A1
TD3F SHSTA 2 BULLPOP BAIT VCUMPI	LD01	5	5500	0	85	5	0	500	P1	
TD3G GSTA 3 GND INTERLOCK COMP1	LD01	5	25	0	0	1	100	10K	80	A1
TD3G VSTA 3 WALL EYE VIDEO COMP1	HA	0	10	8.25	MHZ					
TD3G YSTA 3 MULT LOADING COMP1	LD01	5	25	0	0	1	100	10K	80	A1



TD3G ZSTA 3 WE FIL POS 2 COMP1	LD01 5 25 0 0 1 100 10K 80 A1
TD3G SASTA 3 WALLEYE READY COMP1	LD01 5 25 0 0 1 100 10K 80 A1
TD3G SNSTA 3 BULLPUP BATT VCUMP1	LD01 5 5500 0 85 5 0 500 P1
TD3GF 1STA 3 FUEL QUANTITY FM2B	LA13 5 10 0 10 AC 10 10K 10 AC1
TD3H 4STA 4 AUDIO COMP1	AA0410K400 TO 2000 HZ
TD3H 5STA 4 GND INTERLOCK COMP1	LD01 5 25 0 0 1 100 10K 80 A1
TD3I 4STA 5 AUDIO COMP1	AA0410K400 TO 2000 HZ
TD3I 5STA 5 GND INTERLOCK COMP1	LD01 5 25 0 0 1 100 10K 80 A1
TD3J 6STA 6 GND INTERLOCK COMP1	LD01 5 25 0 0 1 100 10K 80 A1
TD3J VSTA 6 WALLEYE VIDEO COMP1	HA 0 TO 8.25 MHZ
TD3J YSTA 6 MULT LOADING COMP1	LD01 5 25 0 0 1 100 10K 80 A1
TD3J ZSTA 6 WE FIL POS 2 COMP1	LD01 5 25 0 0 1 100 10K 80 A1
TD3J SASTA 6 WALLEYE READY COMP1	LD01 5 25 0 0 1 100 10K 80 A1
TD3J SNSTA 6 BULLPUP BATT VCUMP1	LD01005 5500 0 85 5 0 500 P1
TD3JF 1STA 6 FUEL QUANTITY FM2B	LA13 5 10 0 10 AC 10 10K 10 AC1
TD3K 6STA 7 GND INTERLOCK COMP1	LD01005 25 0 0 1 100 10K 80 A1
TD3K VSTA 7 WALLEYE VIDEO COMP1	HA 0 TO 8.25 MHZ
TD3K YSTA 7 MULT LOADING COMP1	LD01005 25 0 0 1 100 10K 80 A1
TD3K ZSTA 7 WE FIL POS 2 COMP1	LD01005 25 0 0 1 100 10K 80 A1
TD3K SASTA 7 WALLEYE READY COMP1	LD01005 25 0 0 1 100 10K 80 A1
TD3K SNSTA 7 BULLPUP BATT VCUMP1	LD01005 5500 0 85 5 0 500 P1
TD3L 20STA 8 MULT LOADING COMP1	LD01005 25 0 0 1 100 10K 80 A1
TD3L 26STA 8 WALLEYE READY COMP1	LD01005 25 0 0 1 100 10K 80 A1
TD3L 37STA 8 WE FIL POS 1+2COMP1	LD01005 25 0 0 1 100 10K 80 A1
TD3L 38STA 8 GND INTERLOCK COMP1	LD01005 25 0 0 1 100 10K 80 A1
TD3L 45STA 8 SPRAY TANK RDCOMP1	LD01005 28 0 0 1 28 0 600 P1
TD3L 47STA 8 BULLPUP BATT VCUMP1	LD01005 5500 0 85 5 0 500 P1
TD3L 52STA 8 WALLEYE VIDEO COMP1	HA 0 TO 8.25 MHZ
TD3M JTRIGGER SWITCH OUT 1COMP1	LD01100 28 0 0 1 28 0 600 P1
TD3M NTRIGGER SWITCH OUT 2COMP1	LD01100 28 0 0 1 28 0 600 P1
TD3M RDESIGNATE SWITCH COMP1	LD01100 28 0 0 1 28 0 600 P1
TD3M TARMAMENT RELEASE SW COMP1	LD01100 28 0 0 1 28 0 600 P1
TD4A1 6LOS DIR COS X TD4C	HA 1
TD4A1 7LOS DIR COS Y TD4C	HA 1
TD4A1 8LOS DIR COS Z TD4C	HA 1
TD4A110FIRM TRACK TD4C	LD01 5 5 0 0 1 5 0 500 P1
TD4A111TEMP WARNING TD4C	LD01 1 28 0 0 1 28 0 600 P1
TD4A113+15VDC TD4E	PR 1
TD4A114+5VDC TD4E	PR 1
TD4A123CLOCK (TP SHLD) TD4BTD4C	HD 1
TD4A124FRACK LAMP TD4C	LD01 5 28 0 0 1 28 0 700 P1
TD4A129BITE PULSE TD4E	LD01 5 5 0 0 1 5 0 500 P1
TD4A132CLOCK RET TD4BTD4C	1
TD4A133CODE/CLOCK SHLD PR3A	PR 1
TD4A13428VDC RET PR3A	PR 1
TD4A135115VAC GRD PR3A	PR 1
TD4B1 DCAGE CUE TD4A	LD01 5 5 0 0 1 5 0 500 P1
TD4B1 EDIRECT CUE TD4A	LD01 5 5 0 0 1 5 0 500 P1
TD4B1 FLEVEL CUE TD4A	LD01 5 5 0 0 1 5 0 500 P1
TD4B1 GDIVE CUE TD4A	LD01 5 5 0 0 1 5 0 500 P1
TD4B1 HSCAN NAR/WIDE TD4A	LD01 5 5 0 0 1 5 0 500 P1
TD4B1 JZ DEPRESSION TD4A	LA10 20 10100 0 DC 10 5K 0 DC1
TD4B1 KA DEPRESSION TD4A	LA10 20 10100 0 DC 10 5K 0 DC1
TD4B1 LCODE TD4A	LA13 20SERIAL DIGITALSERIAL DIGITAL 1
TD4B1 MCODE RET TD4A	1
TD4B1 RGNU PR3A	PR 1
TD4B1 SPIM/PRF SEL TD4A	LD01 5 28 0 0 1 28 0 600 P1
TD4C1 ACUE DIR COS X TD4A	LA10 20 10100 0 DC 10 5K 0 DC1
TD4C1 BCUE DIR COS Y TD4A	LA10 20 10100 0 DC 10 5K 0 DC1
TD4C1 CCUE DIR COS Z TD4A	LA10 20 10100 0 DC 10 5K 0 DC1

[illegible]



TD5B 11GMS MODE	ID5C	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 12AGR MODE	ID5E	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 13BEACON MODE	TD5C	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 14AGR DISPLAY	ID5C	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 15AGH (SLAVE) (GND)	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 16STANDBY MODE	ID5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 17CIRC POLARIZATION	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 18COMPUTER FAIL/SAFE	ID5C	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 19FREQUENCY TUNING	ID5A	LA 4 5 3.6100 0 AC 3.6 5K 0 AC1
TD5B 20AZ BURESIGHT RELAY	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 21MODE PHASE	ID5C	LD 1 5 28 0 0 1 28 0 600 P1
TD5B 22TILT CONTROL	ID5A	LA10 5 20100 0 AC 20 4K 0 AC1
TD5C 15, 10 RANGE	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 220, 40, 80 RANGE	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 320, 40, 80 BEACON RNG	ID5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 41INDICATOR BLANKING	ID5F	AD 1
TD5C 5LOAD	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 6BEACON MODE	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 7RECEIVER BLANKING	ID5A	MD 1
TD5C 85 RANGE	ID5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 910 RANGE	ID5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 1020 RANGE	ID5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 1140 RANGE	ID5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 1280 RANGE	ID5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 13GMS/LOAD	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 14MANUAL LOAD SELECT	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 15CURSOR SIN ANALOG	ID5D	LA10 25 4.5100 0 DC 4.5 5K 0 DC1
TD5C 16TA	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 17CSIA	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 18CSGMP	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 19GMP/GMS	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 20GMS	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 21BEACON	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 22AGR	ID5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 23IF	ID5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 24FAIL	ID5D	LD 1 5 28 0 0 1 28 0 600 P1
TD5C 25PMT LIMITED	ID5D	MD 1
TD5C 26DUNK PULSE	ID5D	MD 1
TD5C 27VERTICAL SWEEP	ID5D	MD 1
TD5C 28HORIZONTAL SWEEP	ID5D	MD 1
TD5C 29CLAMP GATE	ID5D	MD 1
TD5C 30TV VIDEO	ID5D	MD 1
TD5C 31CURSOR GATE	ID5D	MD 1
TD5C 32UNBLANK GATE	ID5D	MD 1
TD5C 33ERASE PULSE	ID5D	MD 1
TD5C 34TV HORIZONTAL SYNC	ID5D	MD 1
TD5C 35CURSOR VIDEO	ID5D	HA 1
TD5C 36CLOCK PULSE	ID5E	MD 1
TD5C 37MAX RANGE GATE	ID5E	MD 1
TD5C 38FAIL OVERRIDE	ID5A	LD 1 10 28 0 0 1 28 0 600 P1
TD5C 39INTERUPT	ID5A	LD 1 10 28 0 0 1 28 0 600 P1
TD5C 40TAW RATE	ID5A	LA13 50 50100 0 AC 50 5K 0 AC1
TD5C 41RADAR ALTITUDE	ID5A	LA12 25 25100 0 DC 25 5K 0 DC1
TD5C 42VELOCITY	ID5A	LA12 25 1 100 0 DC 1 5K 0 DC1
TD5C 43CLIMB ANGLE	ID5A	LA12 25 18100 0 DC 18 5K 0 DC1
TD5C 44COMPUTER UNBLANK	ID5A	MD 1
TD5C 45ANTI/PCVR FAIL/SAFE	ID5D	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 46TEST PULSE FAIL/SAFE	ID5D	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 47COMPUTER FAIL/SAFE	ID5D	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 48AMTR FAIL/SAFE	ID5D	LD 1 10 5 0 0 1 5 0 500 P1

TD5C 49AIRPLANE FAIL/SAFE	TD5D	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 50BIT FAIL/SAFE	TD5D	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 51SLEEP GEN FAIL/SAFE	TD5D	LD 1 10 5 0 0 1 5 0 500 P1
TD5C 52RADAR RANGE	COMP1	LD16 50SERIAL DIGITALSERIAL DIGITAL 1
TD5C 53ADDRESS	COMP1	LD 1 50SERIAL DIGITALSERIAL DIGITAL 1
TD5C 54DATA READY	COMP1	MD 1
TD5C 55SET RANGE READ OUT	TD7A	LD 1 10 28 0 0 1 28 0 600 P1
TD5D 1STORAGE CONTROL	TD5C	LA 7 5 -20 0 0 DC -20 20K 0 DC1
TD5D 1FAIL/SAFE TO LAMP DR1D5C	TD5C	LD 1 10 5 0 0 1 5 0 500 P1
TD5D 2TV SELECT GRD	TD5C	LD 1 5 28 0 0 1 28 0 600 P1
TD5D 3MANUAL GAIN	TD5A	LA10 5 18 0 0 DC 18 10K 0 DC1
TD5D 4MODE OVERRIDE + CS1A1D5C	TD5C	LD 1 10 28 0 0 1 28 0 600 P1
TD5D 5MODE OVERRIDE ANT/HC1D5C	TD5C	LD 1 10 28 0 0 1 28 0 600 P1
TD5D 6TURN RATE SIMULATE	TD5C	LD 1 10 28 0 0 1 28 0 600 P1
TD5D 7FLIGHT CMD WARNING	TD7A	LD 1 10 .3 0 0 1 .3 0 300 P1
TD5D 7FLIGHT CMD WARNING	COMP2	LD 1 10 .3 0 0 1 .3 0 300 P2
TD5D 8SCAN INTERRUPT	TD5A	LD 1 10 15 0 0 1 15 0 600 P1
TD5D 9MODE OVERRIDE + 1A	TD5C	LD 1 5 5 0 0 1 5 0 500 P1
TD5D 10LUD	TD5C	LD 1 10 28 0 0 1 28 0 600 P1
TD5E 1MANUAL CURSOR	TD5B	LD 1 5 28 0 0 1 28 0 600 P1
TD5E 2MANUAL RANGE STROBE	TD5C	MD 1
TD5E 3200 FT CLEARANCE	TD5A	LD 1 5 28 0 0 1 28 0 600 P1
TD5E 48ET CLEARANCE	TD5A	LA12 5 25 0 0 DC 25 10K 0 DC1
TD5E 5CLIMB DIVE CMD DELAY	TD5E	LD 1 10 4 0 0 1 4 0 4K P1
TD5E 6MM1	TD5C	LD 1 5 5 0 0 1 5 0 500 P1
TD6A1 6GND	PR3A	PR 1
TD6A2 RF IN/OUT	TD6C	HA COAX 1
TD6A3 A+20VDC	TD6B	PR 1
TD6A3 DELANNING OUTPUT	MS1A	AD CRITICAL DELAY 1
TD6A3 E-10VDC	TD6B	PR 1
TD6A3 FUND	PR3A	PR 1
TD6B1 1DECODE CONTROL	TD6A	LA05 5 12100 -3 DC 12 4K -3 DC1
TD6B1 2ENCODE CONTROL	TD6A	LA03 5 10200 0 DC 10 2K 0 DC1
TD6B1 55V RETURN	PR3A	PR 1
TD6B1 720VDC OUT	TD6A	PR 1
TD6B1 8GND	PR3A	PR 1
TD6B111STANDBY	TD6A	LD01 5 20 0 0 1 20 0 10K P1
TD6C1 RF IN/OUT	TD6A	HA COAX 1
TD7A1 1AUD OFF/FAIL	COMP1	LD01 1 5 0 0 1 5 0 500 P1
TD7A1 2HUD OFF RET	COMP2	LD01 1 28 0 0 1 28 0 600 P1
TD7A1 3THERMAL OVRD	COMP2	LD01 1 28 0 0 1 28 0 600 P1
TD7A1 4HUD FAIL	COMP2	LD01 1 28 0 0 1 28 0 600 P1
TD7A1 8GND	PR3A	PR 1
TD7A117COMB DISCRETE	COMP1	LD01 5 28 0 0 1 28 0 600 P1
TD7A118ELEC UNIT CUNT 1	COMP1	LD01 5 28 0 0 1 28 0 600 P1
TD7A123GND	PR3A	PR 1
TD7A124SIGNAL GND	COMP1	PR 1
TD7A125DEFL MON	COMP1	LD 1200 5 0 0 1 5 0 500 P1
TD7A132ECLUTIER DISCRETE	COMP1	LD01 5 28 0 0 1 28 0 600 P1
TD7A133SELF-TEST CMD	COMP1	LD01 5 28 0 0 1 28 0 600 P1
TD7A136BUSY SIGNAL	COMP1	MD CRITICAL 1
TD7A139BRIGHT-UP	COMP1	HA CRITICAL 1
TD7A144GND	PR3A	PR 1
TD7A145ELEC UNIT FAIL RET	COMP1	PR 1
TD7A151A/P SIM BIAS	COMP1	LA06 20 15100 0 DC 15 5K 0 DC1
TD7A156X DEFL RET	COMP1	PR 1
TD7A160AUX IND	COMP1	LA06 20 15100 0 DC 15 5K 0 DC1
TD7A161SIDE-SLIP IND	COMP1	LA06 20 15100 0 DC 15 5K 0 DC1
TD7A162ALT SCALE	COMP1	LA06 20 15100 0 DC 15 5K 0 DC1
TD7A163HEADING IND	COMP1	LA06 20 15100 0 DC 15 5K 0 DC1



AFAL-TR-76-120

TD7A164VENT VEL IND	CUMP1	LA06 20 15100 0 DC 15 5K 0 DC1	
TD7A165AIR SPEED IND	CUMP1	LA06 5 15100 0 DC 15 5K 0 DC1	
TD7A1712 POS CUMB DISCK	CUMP1	LD01 20 28 0 0 1 28 0 600 P1	
TD7A174IDEFL RETURN	CUMP1	PR	1
TD7A176115VAC PHASE A	TD7C	PR	1
TD7A177115VAC PHASE B	TD7C	PR	1
TD7A178115VAC PHASE C	TD7C	PR	1
Z			

AFAL-TR-76-120

#### 4. SYSTEM "A" SIAAP ANALYSIS



AFAL-TR-76-120

PASSIVE DISCRETE INPUT SSIM

1	2.0000 LOTV	0.0000 LZTV	.10E+06 IZ	0.0010 PWR	32 CHAN/MOD
2	18.0000 LOTV	17.0000 LZTV	.10E+06 IZ	0.0100 PWR	32 CHAN/MOD

ACTIVE DISCRETE INPUT SSIM

1	.50E+05 LOZT	.10E+04 LZTZ	32 CHAN/MOD
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ANALOG INPUT SSIM

1	10.0000 CRUB	-7.5000 CRLB	.10E+07 IZ	13. QUAN	TYPE DC	32 CHAN/MOD		
GAINS	2.000	1.000	0.500	0.400	0.250	0.100	0.000	0.000

SYNCHRO INPUT SSIM

1	11.8000 VR	.20E+05 IZ	13. QUAN	8 CHAN/MOD
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PASSIVE DISCRETE OUTPUT SSIM

1	.50E+02 LOZ	.10E+06 LZZ	200.0000 CSM	32 CHAN/MOD
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ACTIVE DISCRETE OUTPUT SSIM

1	6.0000 LOV	0.0000 LZV	.00E+00 LOZ	.00E+00 LZZ	32 CHAN/MOD
2	28.0000 LOV	0.0000 LZV	.00E+00 LOZ	.00E+00 LZZ	32 CHAN/MOD

ANALOG OUTPUT SSIM

1	10.0000 VUB	-2.5000 VLB	.00E+00 SZ	13. QUAN	TYPE DC	8 CHAN/MOD
2	30.0000 VUB	-5.0000 VLB	.00E+00 SZ	13. QUAN	TYPE DC	8 CHAN/MOD

SYSTEM SYSA READ

SYSTEM SYSA FOUND

AFAL-TR-76-120

ISWIT = 0

TERMINAL 1 LRU ASSIGNMENTS

CIT1	CM1A	CM1E	CM1H	CM1J	CM1M	CM1O	CM3C	CO6E	MS8A
NV1A	NV1F	NV4H	NV4I	NV9G	NV6E	NV7B	RT1	TD2B	TD9A
TD5B	TD7A	TD7D							

TERMINAL 2 LRU ASSIGNMENTS

CIT2	CO1B	CO1C	CO1D	CO2B	CO3A	CO6B	CO6D	MS7A	RT6
TD1F	TD2C	TD3D	TD3G	TD4B	TD7B				

TERMINAL 3 LRU ASSIGNMENTS

CIT3	CM1B	CM1I	CM1P	CM2A	CM3B	CO1A	CO4B	CO5A	MS2A
MS3A	MS4A	NV1C	NV1H	NV1J	NV1L	NV2B	NV2C	NV4D	NV5C
NV5F	NV6B	R1	RT2	TD1C	TD6B	TD7E			

TERMINAL 4 LRU ASSIGNMENTS

CC1B	CIT4	CIT5	CO2A	CO3B	CO4A	CO6A	CO6C	CO6F	CO6G
NV2A	NV2A	NV4B	NV4C	NV5A	NV6A	NV5B	NV6C	NV6D	NV7A
RT3	RT4	TD7C	TD7F						

TERMINAL 5 LRU ASSIGNMENTS

CC1B	CIT6	CIT7	CM1C	CM1D	CM2B	CM2C	MS1A	NV1B	NV1G
NV1I	NV1K	NV3A	NV4E	NV4F	NV4J	R2	R3	R4	RT5
TD1A	TD1B	TD1D	TD1F	TD2A	TD2D	TD3A	TD3B	TD3C	TD3E
TD3F	TD4C	TD6C							

TERMINAL 6 LRU ASSIGNMENTS

CIT8	CM3A	CO4H	CO6I	MS5A	NV1D	NV1E	NV3B	NV4G	NV5E
TD4A									

TERMINAL 7 LRU ASSIGNMENTS

CIT9	CM1F	CM1G	CM1K	CM1L	CM2D	CM2E	CO2C	CO3C	CO5B
NV5D	TD6A	TD6C							



## UNMATCHED INTERFACE CHARACTERISTICS

DIG/NUM INTERFACES,	COMPUTER I/O	0	0	0	0	4
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	1
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	1
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	2
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	2
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	3
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	3
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	3
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	3
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	4
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	4
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	4
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	4
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	5
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	5
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	5
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	5
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	0	0	0	0	6
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	1	3	0	0	5
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	1	3	0	0	5
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	3	3	0	0	2
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	2	3	0	0	2
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	1	3	0	0	4
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	1	3	0	0	4
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	2	3	0	0	4
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	2	3	0	0	4
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	3	3	0	0	4
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	3	3	0	0	4
DIG/NUM INTERFACES,	SERIAL DIGITALSERIAL DIGITAL	3	3	0	0	4

DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	3	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	4	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	4	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	4	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	4	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	5	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	5	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	5	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	5	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	5	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	2	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	4	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	4	3	0	0	4		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	4	3	0	0	4		
SYNCHRO OUTPUT INTERFACE,	11.8 20		1	3	0	0			
SYNCHRO OUTPUT INTERFACE,	11.8 20		1	3	0	0			
ANALOG OUTPUT INTERFACE,	12. 5.0000	0.50E+03	-2.5000	DC	5	3	0	0	
ANALOG OUTPUT INTERFACE,	12. 5.0000	0.50E+03	-2.5000	DC	5	3	0	0	
ANALOG OUTPUT INTERFACE,	12. 5.0000	0.50E+03	-2.5000	DC	5	3	0	0	
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	3	0	0			
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	3	0	0			
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	3	0	0			
DISCRETE OUTPUT INTERFACE,	0.60E-01	-0.60E-01	0.20E+03	P	4	3	0	0	
SYNCHRO OUTPUT INTERFACE,	11.8 150		4	3	0	0			
SYNCHRO OUTPUT INTERFACE,	11.8 150		1	3	0	0			
SYNCHRO OUTPUT INTERFACE,	11.8 150		1	3	0	0			
SYNCHRO OUTPUT INTERFACE,	11.8 150		1	3	0	0			
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	1	0	0			
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	1	0	0			
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	1	0	0			



ANALOG OUTPUT INTERFACE,	6.	7.0000	0.80E+04	-2.0000	AC	1	1	0	0
SYNCHRO OUTPUT INTERFACE,	11.8	200		1 1 0 0					
DIG/NUM INTERFACES,			COMPUTER I/O			4	1	0	0 4
ANALOG INPUT INTERFACE,	10.	37.0000	0.10E+03	0.00E+00	AC	5			
ANALOG INPUT INTERFACE,	10.	37.0000	0.10E+03	0.00E+00	AC	5			
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 1 0 0					
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 1 0 0					
SYNCHRO OUTPUT INTERFACE,	11.8	20		1 1 0 0					
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 1 0 0					
SYNCHRO OUTPUT INTERFACE,	11.8	20		1 1 0 0					
SYNCHRO OUTPUT INTERFACE,	11.8	20		1 1 0 0					
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 1 0 0					
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 1 0 0					
ANALOG INPUT INTERFACE,	10.	0.3500	0.10E+03	0.00E+00	DC	4			
ANALOG OUTPUT INTERFACE,	10.	0.3500	0.35E+03	0.0000	DC	4	1	0	0
ANALOG INPUT INTERFACE,	10.	0.3500	0.10E+03	0.00E+00	DC	4			
ANALOG OUTPUT INTERFACE,	10.	0.3500	0.35E+03	0.0000	DC	4	1	0	0
ANALOG INPUT INTERFACE,	10.	0.3500	0.10E+03	0.00E+00	DC	4			
ANALOG OUTPUT INTERFACE,	10.	0.3500	0.35E+03	0.0000	DC	4	1	0	0
ANALOG INPUT INTERFACE,	10.	0.5000	0.10E+03	-0.25E+00	DC	4			
ANALOG OUTPUT INTERFACE,	10.	0.5000	0.20E+04	-0.2500	DC	4	1	0	0
ANALOG INPUT INTERFACE,	10.	48.0000	0.10E+03	-0.24E+02	AC	4			
ANALOG OUTPUT INTERFACE,	10.	48.0000	0.80E+03	-24.0000	AC	4	1	0	0
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 1 0 0					
ANALOG INPUT INTERFACE,	10.	35.0000	0.43E+02	0.00E+00	AC	4			
ANALOG OUTPUT INTERFACE,	10.	35.0000	0.70E+02	0.0000	AC	4	1	0	0
ANALOG INPUT INTERFACE,	10.	20.0000	0.10E+03	0.00E+00	AC	4			
ANALOG OUTPUT INTERFACE,	10.	25.0000	0.20E+03	0.0000	AC	4	1	0	0
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 1 0 0					
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 1 0 0					

SYNCHRO OUTPUT INTERFACE,	11.8 200	1	1	0	0				
SYNCHRO OUTPUT INTERFACE,	11.8 200	1	1	0	0				
ANALOG INPUT INTERFACE,	6. 5.0000 0.10E+03 0.00E+00	AC	3						
ANALOG OUTPUT INTERFACE,	6. 5.0000 0.10E+03 0.0000	AC	4	1	0	0			
SYNCHRO OUTPUT INTERFACE,	11.8 200	4	4	0	0				
SYNCHRO OUTPUT INTERFACE,	11.8 20	4	4	0	0				
SYNCHRO OUTPUT INTERFACE,	11.8 200	4	4	0	0				
SYNCHRO OUTPUT INTERFACE,	11.8 200	4	4	0	0				
DIG/NUM INTERFACES, SERIAL DIGITALSERIAL DIGITAL		4	4	0	0	4			
DIG/NUM INTERFACES, SERIAL DIGITALSERIAL DIGITAL		4	4	0	0	4			
SYNCHRO OUTPUT INTERFACE,	11.8 200	1	4	0	0				
DIG/NUM INTERFACES, SERIAL DIGITALSERIAL DIGITAL		1	4	0	0	4			
DIG/NUM INTERFACES, SERIAL DIGITALSERIAL DIGITAL		1	4	0	0	4			
SYNCHRO OUTPUT INTERFACE,	11.8 200	1	4	0	0				
SYNCHRO OUTPUT INTERFACE,	11.8 200	1	4	0	0				
DISCRETE INPUT INTERFACE,	0.30E+00 0.00E+00 0.00E+00 0.10E+13		1						
DIG/NUM INTERFACES, SERIAL DIGITALSERIAL DIGITAL		5	4	0	0	5			
DIG/NUM INTERFACES, SERIAL DIGITALSERIAL DIGITAL		5	4	0	0	5			
DIG/NUM INTERFACES, SERIAL DIGITALSERIAL DIGITAL		5	4	0	0	5			
DIG/NUM INTERFACES, SERIAL DIGITALSERIAL DIGITAL		5	4	0	0	5			
DIG/NUM INTERFACES, SERIAL DIGITALSERIAL DIGITAL		5	4	0	0	2			
DIG/NUM INTERFACES, SERIAL DIGITALSERIAL DIGITAL		6	5	0	0	2			
DISCRETE INPUT INTERFACE,	0.15E+02 0.00E+00 0.00E+00 0.10E+13		1						
DISCRETE INPUT INTERFACE,	0.15E+02 0.00E+00 0.00E+00 0.10E+13		1						
DISCRETE INPUT INTERFACE,	0.20E+01 0.30E+04 0.00E+00 0.10E+13		1						
DISCRETE INPUT INTERFACE,	0.15E+02 0.00E+00 0.00E+00 0.10E+13		1						
ANALOG INPUT INTERFACE,	4. 3.6000 0.10E+03 0.00E+00	AC	2						
ANALOG OUTPUT INTERFACE,	4. 3.6000 0.40E+04 0.0000	AC	1	1	0	0			
ANALOG INPUT INTERFACE,	10. 20.0000 0.10E+03 0.00E+00	AC	2						
ANALOG OUTPUT INTERFACE,	10. 20.0000 0.40E+04 0.0000	AC	1	1	0	0			



AFAL-TR-76-120

ANALOG INPUT INTERFACE,	13.	50.0000	0.10E+03	0.00E+00	AC	4				
ANALOG OUTPUT INTERFACE,	13.	50.0000	0.50E+04	0.0000	AC	1	1	0	0	
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL				4	1	0	0	4
ANALOG INPUT INTERFACE,	7.	-20.0000	0.00E+00	0.00E+00	DC	1				
ANALOG OUTPUT INTERFACE,	7.	-20.0000	0.20E+05	0.0000	DC	4	1	0	0	
DISCRETE INPUT INTERFACE,	0.30E+00	0.00E+00	0.00E+00	0.10E+13		4				
DISCRETE INPUT INTERFACE,	0.15E+02	0.00E+00	0.00E+00	0.10E+13		4				

UNMATCHED SIGNAL SUMMARY				
DISCRETE INPUT	ANALOG INPUT	SYNCHRO INPUT	DIG/NUM	DISCRETE OUTPUT
7	14	0	69	1
				ANALOG OUTPUT
				16
				SYNCHRO OUTPUT
				30
TOTAL 137				



AFAL-TR-76-120

**SIGNAL COUNT SUMMARY**

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	511	129	245	42	139	421	41
2	232	0	0	0	0	220	13
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	743	129	245	22	139	641	54
TOTAL SIGNALS 1973							

## TERMINAL NUMBER 1 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	35	5	28	0	1	17	10
2	34	0	0	0	0	48	7
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	69	5	28	0	13	62	17
TOTAL SIGNALS	194						

## TERMINAL NUMBER 2 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	80	56	24	0	0	13	0
2	41	0	0	0	0	14	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	121	56	24	0	0	27	0
TOTAL SIGNALS	228						

## TERMINAL NUMBER 3 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	167	31	45	1	20	115	1
2	37	0	0	0	0	29	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	204	31	45	1	20	144	1
TOTAL SIGNALS	446						

## TERMINAL NUMBER 4 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	85	13	62	19	99	36	15
2	63	0	0	0	0	79	4
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	148	13	62	19	99	115	19
TOTAL SIGNALS	475						



AFAL-TR-76-120

TERMINAL NUMBER 5 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	133	20	40	0	5	225	9
2	49	0	0	0	0	37	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	182	20	40	0	5	262	9
TOTAL SIGNALS	558						

TERMINAL NUMBER 6 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	5	4	3	2	2	7	6
2	5	0	0	0	0	4	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	10	4	3	2	2	11	6
TOTAL SIGNALS	38						

TERMINAL NUMBER 7 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	6	0	3	0	0	8	0
2	3	0	0	0	0	12	2
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	9	0	3	0	0	20	2
TOTAL SIGNALS	34						

## PDI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	35	34	0	0	0	69
2	80	41	0	0	0	121
3	167	37	0	0	0	204
4	85	63	0	0	0	148
5	133	49	0	0	0	182
6	5	5	0	0	0	10
7	6	3	0	0	0	9
TOTAL	511	232	0	0	0	743

## ADI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	5	0	0	0	0	5
2	56	0	0	0	0	56
3	31	0	0	0	0	31
4	13	0	0	0	0	13
5	20	0	0	0	0	20
6	4	0	0	0	0	4
7	0	0	0	0	0	0
TOTAL	129	0	0	0	0	129

## AI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	28	0	0	0	0	28
2	24	0	0	0	0	24
3	45	0	0	0	0	45
4	62	0	0	0	0	62
5	80	0	0	0	0	80
6	3	0	0	0	0	3
7	3	0	0	0	0	3
TOTAL	245	0	0	0	0	245



AFAL-TR-76-120

SI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	1	0	0	0	0	1
4	19	0	0	0	0	19
5	0	0	0	0	0	0
6	2	0	0	0	0	2
7	0	0	0	0	0	0
TOTAL	22	0	0	0	0	22

PDO SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	13	0	0	0	0	13
2	0	0	0	0	0	0
3	20	0	0	0	0	20
4	99	0	0	0	0	99
5	5	0	0	0	0	5
6	2	0	0	0	0	2
7	0	0	0	0	0	0
TOTAL	139	0	0	0	0	139

ADO SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	17	45	0	0	0	62
2	13	14	0	0	0	27
3	115	79	0	0	0	194
4	36	79	0	0	0	115
5	225	37	0	0	0	262
6	7	4	0	0	0	11
7	8	12	0	0	0	20
TOTAL	421	220	0	0	0	641

AFAL-TR-76-120

AD SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	10	7	0	0	0	17
2	0	0	0	0	0	0
3	1	0	0	0	0	1
4	15	4	0	0	0	19
5	9	0	0	0	0	9
6	8	0	0	0	0	8
7	0	2	0	0	0	2
TOTAL	41	13	0	0	0	54



AFAL-TR-76-120

MODULE COUNT SUMMARY, REDUNDANCY LEVEL 1

SSIM	FDI	ADI	AI	SI	PDC	ADD	AD
1	21	7	11	5	8	18	8
2	12	0	0	0	0	11	3
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	33	7	11	5	8	29	11
TOTAL MODULES	104						

## TERMINAL NUMBER 1 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	2	1	1	0	1	1	2
2	2	0	0	0	0	2	1
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	4	1	1	0	1	3	3
TOTAL MODULES		13					

## TERMINAL NUMBER 2 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	3	2	1	0	0	1	0
2	2	0	0	0	0	1	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	5	2	1	0	0	2	0
TOTAL MODULES		10					

## TERMINAL NUMBER 3 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	6	1	2	1	1	4	1
2	2	0	0	0	0	1	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	8	1	2	1	1	5	1
TOTAL MODULES		19					

## TERMINAL NUMBER 4 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	3	1	2	3	4	2	2
2	2	0	0	0	0	3	1
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	5	1	2	3	4	5	3
TOTAL MODULES		23					



AFAL-TR-76-120

TERMINAL NUMBER 5 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	5	1	3	0	1	8	2
2	2	0	0	0	0	2	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	7	1	3	0	1	10	2
TOTAL MODULES		24					

TERMINAL NUMBER 6 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	1	1	1	1	1	1
2	1	0	0	0	0	1	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	2	1	1	1	1	2	1
TOTAL MODULES		9					

TERMINAL NUMBER 7 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	0	1	0	0	1	0
2	1	0	0	0	0	1	1
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	2	0	1	0	0	2	1
TOTAL MODULES		6					

## PDI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	2	2	0	0	0	4
2	3	2	0	0	0	5
3	6	2	0	0	0	8
4	3	2	0	0	0	5
5	5	2	0	0	0	7
6	1	1	0	0	0	2
7	1	1	0	0	0	2
TOTAL	21	12	0	0	0	33

## ADI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	1	0	0	0	0	1
2	2	0	0	0	0	2
3	1	0	0	0	0	1
4	1	0	0	0	0	1
5	1	0	0	0	0	1
6	1	0	0	0	0	1
7	0	0	0	0	0	0
TOTAL	7	0	0	0	0	7

## AI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	1	0	0	0	0	1
2	1	0	0	0	0	1
3	2	0	0	0	0	2
4	2	0	0	0	0	2
5	3	0	0	0	0	3
6	1	0	0	0	0	1
7	1	0	0	0	0	1
TOTAL	11	0	0	0	0	11



## SI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	1	0	0	0	0	1
4	3	0	0	0	0	3
5	0	0	0	0	0	0
6	1	0	0	0	0	1
7	0	0	0	0	0	0
TOTAL	5	0	0	0	0	5

## PDO SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	1	0	0	0	0	1
2	0	0	0	0	0	0
3	1	0	0	0	0	1
4	4	0	0	0	0	4
5	1	0	0	0	0	1
6	1	0	0	0	0	1
7	0	0	0	0	0	0
TOTAL	8	0	0	0	0	8

## ADO SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	1	2	0	0	0	3
2	1	1	0	0	0	2
3	4	1	0	0	0	5
4	2	3	0	0	0	5
5	8	2	0	0	0	10
6	1	1	0	0	0	2
7	1	1	0	0	0	2
TOTAL	18	11	0	0	0	29

AFAL-TR-76-120

AD SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	2	1	0	0	0	3
2	0	0	0	0	0	0
3	1	0	0	0	0	1
4	2	1	0	0	0	3
5	2	0	0	0	0	2
6	1	0	0	0	0	1
7	0	1	0	0	0	1
TOTAL	8	3	0	0	0	11



AFAL-TR-76-120

UTILIZATION FACTOR SUMMARY, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.76	.58	.70	.55	.54	.71	.64
2	.60	.00	.00	.00	.00	.63	.54
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.70	.58	.70	.55	.54	.69	.61
OVERALL UTILIZATION FACTOR				.67			

## TERMINAL NUMBER 1 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.55	.16	.28	.00	.41	.51	.63
2	.53	.00	.00	.00	.00	.70	.88
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.54	.16	.28	.00	.41	.65	.71
TERMINAL UTILIZATION FACTOR				.56			

## TERMINAL NUMBER 2 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.83	.88	.75	.00	.00	.41	.00
2	.64	.00	.00	.00	.00	.44	.00
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.76	.88	.75	.00	.00	.42	.00
TERMINAL UTILIZATION FACTOR				.71			

## TERMINAL NUMBER 3 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.87	.97	.70	.13	.63	.90	.13
2	.58	.00	.00	.00	.00	.91	.00
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.80	.97	.70	.13	.63	.90	.13
TERMINAL UTILIZATION FACTOR				.80			

## TERMINAL NUMBER 4 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.89	.41	.97	.29	.77	.56	.94
2	.98	.00	.00	.00	.00	.82	.50
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.92	.41	.97	.29	.77	.72	.79
TERMINAL UTILIZATION FACTOR				.80			



AFAL-TR-76-120

TERMINAL NUMBER 5 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.83	.63	.83	.00	.16	.88	.56
2	.77	.00	.00	.00	.00	.88	.00
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.81	.63	.83	.00	.16	.82	.56
TERMINAL UTILIZATION FACTOR				.77			

TERMINAL NUMBER 6 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.16	.13	.09	.45	.04	.22	.75
2	.16	.00	.00	.00	.00	.13	.00
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.16	.13	.09	.25	.06	.17	.75
TERMINAL UTILIZATION FACTOR				.16			

TERMINAL NUMBER 7 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.19	.00	.09	.00	.00	.25	.00
2	.09	.00	.00	.00	.00	.38	.25
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.14	.00	.09	.00	.00	.31	.25
TERMINAL UTILIZATION FACTOR				.20			

## PDI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.55	.53	.00	.00	.00	.54
2	.83	.64	.00	.00	.00	.76
3	.87	.58	.00	.00	.00	.80
4	.89	.98	.00	.00	.00	.92
5	.83	.77	.00	.00	.00	.81
6	.16	.16	.00	.00	.00	.16
7	.19	.09	.00	.00	.00	.14
TOTAL	.76	.60	.00	.00	.00	.70

## ADI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.16	.00	.00	.00	.00	.16
2	.88	.00	.00	.00	.00	.88
3	.97	.00	.00	.00	.00	.97
4	.41	.00	.00	.00	.00	.41
5	.63	.00	.00	.00	.00	.63
6	.13	.00	.00	.00	.00	.13
7	.00	.00	.00	.00	.00	.00
TOTAL	.58	.00	.00	.00	.00	.58

## AI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.88	.00	.00	.00	.00	.88
2	.75	.00	.00	.00	.00	.75
3	.70	.00	.00	.00	.00	.70
4	.97	.00	.00	.00	.00	.97
5	.83	.00	.00	.00	.00	.83
6	.09	.00	.00	.00	.00	.09
7	.09	.00	.00	.00	.00	.09
TOTAL	.70	.00	.00	.00	.00	.70



## SI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00
3	.13	.00	.00	.00	.00	.13
4	.79	.00	.00	.00	.00	.79
5	.00	.00	.00	.00	.00	.00
6	.25	.00	.00	.00	.00	.25
7	.00	.00	.00	.00	.00	.00
TOTAL	.55	.00	.00	.00	.00	.55

## PDO SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.41	.00	.00	.00	.00	.41
2	.00	.00	.00	.00	.00	.00
3	.63	.00	.00	.00	.00	.63
4	.77	.00	.00	.00	.00	.77
5	.16	.00	.00	.00	.00	.16
6	.06	.00	.00	.00	.00	.06
7	.00	.00	.00	.00	.00	.00
TOTAL	.54	.00	.00	.00	.00	.54

## ADO SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.53	.70	.00	.00	.00	.65
2	.41	.44	.00	.00	.00	.42
3	.90	.91	.00	.00	.00	.90
4	.56	.82	.00	.00	.00	.72
5	.88	.56	.00	.00	.00	.82
6	.22	.13	.00	.00	.00	.17
7	.25	.38	.00	.00	.00	.31
TOTAL	.73	.63	.00	.00	.00	.69

AO SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.63	.88	.00	.00	.00	.71
2	.00	.00	.00	.00	.00	.00
3	.13	.00	.00	.00	.00	.13
4	.94	.50	.00	.00	.00	.79
5	.56	.00	.00	.00	.00	.56
6	.78	.00	.00	.00	.00	.78
7	.00	.25	.00	.00	.00	.25
TOTAL	.64	.54	.00	.00	.00	.61

NORMAL EOJ



# 5. SYSTEM "B" SIAAP ANALYSIS

AFAL-TR-76-120

PASSIVE DISCRETE INPUT SSIM

1	2.0000 LOTV	0.8000 LZTV	.10E+06 IZ	0.0010 PWR	32 CHAN/MOD
2	18.0000 LOTV	12.0000 LZTV	.10E+06 IZ	0.0100 PWR	32 CHAN/MOD

ACTIVE DISCRETE INPUT SSIM

1	.50E+05 LOZT	.10E+04 LZTZ	32 CHAN/MOD
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ANALOG INPUT SSIM

1	10.0000 CRUB	-2.5000 CRLB	.10E+07 IZ	13. QUAN	TYPE DG	32 CHAN/MOD
GAINS	2.000 1.000	0.500 0.400	0.250 0.100	0.000 0.000		
2	10.0000 CRUB	0.0000 CRLB	.10E+07 IZ	13. QUAN	TYPE AG	16 CHAN/MOD
GAINS	4.000 2.000	1.000 0.500	0.400 0.250	0.100 0.000		
3	5.0000 CRUB	-5.0000 CRLB	.10E+07 IZ	13. QUAN	TYPE DC	32 CHAN/MOD
GAINS	2.000 1.000	0.500 0.400	0.250 0.100	0.000 0.000		
4	1.5000 CRUB	0.0000 CRLB	.10E+07 IZ	13. QUAN	TYPE	16 CHAN/MOD
GAINS	4.000 2.000	1.000 0.500	0.400 0.250	0.100 0.000		

SYNCHRO INPUT SSIM

1	3.0000 VR	.10E+05 IZ	13. QUAN	8 CHAN/MOD
2	11.0000 VR	.20E+05 IZ	13. QUAN	8 CHAN/MOD

PASSIVE DISCRETE OUTPUT SSIM

1	.50E+02 LOZ	.10E+04 LZZ	200.0000 CSM	32 CHAN/MOD
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ACTIVE DISCRETE OUTPUT SSIM

1	6.0000 LOV	0.0000 LZV	.00E+00 LOZ	.00E+00 LZZ	32 CHAN/MOD
2	20.0000 LOV	0.0000 LZV	.00E+00 LOZ	.00E+00 LZZ	32 CHAN/MOD

ANALOG OUTPUT SSIM

1	10.0000 VUB	-2.5000 VLB	.00E+00 SZ	13. QUAN	TYPE DG	8 CHAN/MOD
2	5.0000 VUB	-5.0000 VLB	.00E+00 SZ	13. QUAN	TYPE AC	8 CHAN/MOD
3	5.0000 VUB	-5.0000 VLB	.00E+00 SZ	13. QUAN	TYPE DC	8 CHAN/MOD
4	30.0000 VUB	-5.0000 VLB	.00E+00 SZ	13. QUAN	TYPE AC	8 CHAN/MOD
5	30.0000 VUB	-5.0000 VLB	.00E+00 SZ	13. QUAN	TYPE DC	8 CHAN/MOD

SYSTEM SYSS READ

SYSTEM SYSS FOUND



AFAL-TR-76-120

ISWIT = 0

TERMINAL 1 LRU ASSIGNMENTS

CM1A	CM1B	CM1C	CM1E	CM1H	CM1I	CM1J	CM1M	CM1O	CO2D
CO6E	EL1A	EL2A	FC1A	FC2A	FM1A	FM2A	MS4A	MS5A	NV1A
NV2F	NV4B	NV4F	NV5E	NV6F	NV5G	NV6D	NV7B	TD3A	TD4B
TD4C	TD4D	TD4M	TD4P	TD4Q	TD4R	TD8D	TD5A		

TERMINAL 2 LRU ASSIGNMENTS

CO1B	CO1C	CO6B	CO7A	EL2B	FC2B	FM2B	MS2A	TD8B	TD5E
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TERMINAL 3 LRU ASSIGNMENTS

CM3B	CO4B	CO5C	EL2C	FC2C	FM2C	MS3A	MS6A	NV2B	NV5C
NV6C	NV8B	TD1B	TD2B	TD5F					

TERMINAL 4 LRU ASSIGNMENTS

CM1D	CM2A	CM2B	CO1A	CO2B	CO3A	CO6A	CO6C	CO6F	CO6G
EL4A	FC4A	FM4A	NV2A	NV2C	NV3A	NV7A	TD1A	TD4A	TD5C

TERMINAL 5 LRU ASSIGNMENTS

CO2A	CO4A	CO5A	CO5B	CO6D	EL4B	FC4B	FM4B	MS1A	NV1B
NV2E	NV4A	NV4C	NV4E	NV5A	NV5B	NV6A	NV8A	TD2A	TD3B
TD3C									

TERMINAL 6 LRU ASSIGNMENTS

CM1N	CM3A	EL3A	EL3B	EL3C	EL4C	EL4D	EL4F	FC3A	FC3B
FC4C	FC4D	FC4F	FM3C	FM4C	FM4E	NV2D	NV3B	NV4D	NV4G
NV6B	NV8C	TD4E	TD4F	TD4G	TD4H	TD4I	TD4J	TD4K	TD4L
TD4N	TD4O								

TERMINAL 7 LRU ASSIGNMENTS

CM1F	CM1G	CM1K	CM1L	CO2C	CO5D	CO6H	EL5A	FC5A	FM5A
NV5D	TD2C								

## UNMATCHED INTERFACE CHARACTERISTICS

ANALOG OUTPUT INTERFACE,	12.	4.0000	0.50E+04	0.0000	DC	4	1	0	0
SYNCHRO OUTPUT INTERFACE,	11.8	200		4	1	0	0		
SYNCHRO OUTPUT INTERFACE,	11.8	20		4	1	0	0		
ANALOG OUTPUT INTERFACE,	12.	4.0000	0.40E+04	0.0000	DC	4	1	0	0
ANALOG OUTPUT INTERFACE,	12.	30.5000	0.60E+04	0.0000	DC	1	1	0	0
SYNCHRO OUTPUT INTERFACE,	11.8	200		1	1	3	0		
ANALOG OUTPUT INTERFACE,	12.	4.0000	0.40E+04	0.0000	DC	4	1	3	0
ANALOG OUTPUT INTERFACE,	12.	4.0000	0.40E+04	0.0000	DC	4	1	3	0
ANALOG OUTPUT INTERFACE,	12.	15.0000	0.40E+04	0.0000	DC	5	1	3	0
ANALOG OUTPUT INTERFACE,	9.	49.0000	0.10E+05	0.0000	AC	1	1	5	0
DISCRETE INPUT INTERFACE,	0.12E+02	0.00E+00	0.00E+00	0.10E+13		1			
ANALOG OUTPUT INTERFACE,	9.	70.0000	0.20E+05	0.0000	AC	1	5	5	0
ANALOG INPUT INTERFACE,	13.	4.0000	0.00E+00	0.00E+00	DC	1			
ANALOG OUTPUT INTERFACE,	13.	4.0000	0.50E+04	0.0000	DC	1	5	5	0
DISCRETE INPUT INTERFACE,	0.36E+02	0.00E+00	0.00E+00	0.10E+13		2			
DISCRETE OUTPUT INTERFACE,	0.36E+02	0.00E+00	0.60E+03	P	7	5	5	0	
DISCRETE INPUT INTERFACE,	0.12E+02	0.00E+00	0.00E+00	0.10E+13		3			
DISCRETE INPUT INTERFACE,	0.12E+02	0.00E+00	0.00E+00	0.10E+13		3			
DISCRETE INPUT INTERFACE,	0.12E+02	0.00E+00	0.00E+00	0.10E+13		3			
ANALOG OUTPUT INTERFACE,	12.	4.0000	0.10E+04	0.0000	DC	4	6	3	0
ANALOG OUTPUT INTERFACE,	12.	14.0000	0.50E+04	0.0000	DC	5	6	3	0
SYNCHRO OUTPUT INTERFACE,	11.8	200		1	5	4	0		
SYNCHRO OUTPUT INTERFACE,	11.8	200		1	5	4	0		
ANALOG OUTPUT INTERFACE,	8.	44.5000	0.50E+03	11.5000	AC	7	1	4	0
ANALOG OUTPUT INTERFACE,	8.	24.5000	0.50E+03	14.5000	AC	7	1	4	0
SYNCHRO OUTPUT INTERFACE,	11.8	20		3	1	4	0		
SYNCHRO OUTPUT INTERFACE,	11.8	20		3	5	1	1		
SYNCHRO OUTPUT INTERFACE,	11.8	20		3	5	1	1		
SYNCHRO OUTPUT INTERFACE,	11.8	20		1	7	2	3		

ANALOG OUTPUT INTERFACE,	7.	0.0250	0.50E+02	0.0000	DC	1	7	2	3
SYNCHRO OUTPUT INTERFACE,	11.8	20		1	7	2	3		
ANALOG OUTPUT INTERFACE,	9.	43.0000	0.10E+03	0.0000	AC	1	7	2	3
ANALOG OUTPUT INTERFACE,	12.	0.2000	0.20E+03	0.0000	AC	5	7	2	3
ANALOG OUTPUT INTERFACE,	12.	0.2000	0.20E+03	0.0000	AC	5	7	2	3
ANALOG OUTPUT INTERFACE,	12.	0.7500	0.60E+03	0.0000	AC	4	7	2	3
ANALOG OUTPUT INTERFACE,	12.	0.7500	0.60E+03	0.0000	AC	4	7	2	3
ANALOG OUTPUT INTERFACE,	12.	13.0000	0.50E+04	0.0000	AC	4	6	2	3
ANALOG OUTPUT INTERFACE,	12.	13.0000	0.50E+04	0.0000	AC	4	6	2	3
SYNCHRO OUTPUT INTERFACE,	11.8	20		2	6	2	3		
ANALOG OUTPUT INTERFACE,	12.	13.0000	0.10E+04	0.0000	AC	4	6	2	3
ANALOG OUTPUT INTERFACE,	12.	13.0000	0.10E+04	0.0000	AG	4	6	2	3
ANALOG OUTPUT INTERFACE,	2.	36.0000	0.50E+04	0.0000	AC	5	6	2	3
ANALOG INPUT INTERFACE,	12.	7.0000	0.00E+00	-0.20E+01	AC	4			
ANALOG INPUT INTERFACE,	12.	7.0000	0.00E+00	-0.20E+01	AC	4			
ANALOG OUTPUT INTERFACE,	12.	13.0000	0.50E+04	0.0000	AC	4	6	2	3
ANALOG OUTPUT INTERFACE,	12.	13.0000	0.50E+04	0.0000	AC	4	6	2	3
ANALOG OUTPUT INTERFACE,	12.	17.0000	0.50E+04	0.0000	AG	4	6	2	3
ANALOG OUTPUT INTERFACE,	12.	0.3000	0.30E+03	0.0000	AG	5	6	2	3
ANALOG OUTPUT INTERFACE,	12.	0.3000	0.30E+03	0.0000	AG	5	6	2	3
SYNCHRO OUTPUT INTERFACE,	11.8	20		4	6	2	3		
ANALOG OUTPUT INTERFACE,	12.	0.3000	0.50E+02	0.0000	AC	4	6	2	3
ANALOG OUTPUT INTERFACE,	12.	0.3000	0.50E+02	0.0000	AC	4	6	2	3
ANALOG INPUT INTERFACE,	12.	3.6000	0.00E+00	-0.18E+01	AC	5			
ANALOG OUTPUT INTERFACE,	12.	3.6000	0.10E+04	-1.8000	AC	4	6	2	3
ANALOG OUTPUT INTERFACE,	12.	0.3000	0.50E+02	0.0000	AG	4	6	2	3
ANALOG OUTPUT INTERFACE,	12.	0.3000	0.50E+02	0.0000	AC	4	6	2	3
SYNCHRO OUTPUT INTERFACE,	11.8	20		1	4	4	3		
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	1			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+03	10.0000	AC	1	4	4	3



ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	1			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AC	1	4	4	3
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	1			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AC	1	4	4	3
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	1			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AC	1	4	4	3
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	2			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AC	1	6	7	3
ANALOG INPUT INTERFACE,	13.	4.0000	0.00E+00	0.30E+01	AC	2			
ANALOG OUTPUT INTERFACE,	13.	4.0000	0.50E+04	3.0000	AC	1	6	7	3
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	2			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AC	1	6	7	3
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	6			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AC	2	4	7	3
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	6			
ANALOG OUTPUT INTERFACE,	13.	1.5000	0.10E+04	0.0000	AC	1	4	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	4			
ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AC	2	4	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	4			
ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AC	5	7	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	4			
ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AC	5	7	1	4
ANALOG OUTPUT INTERFACE,	13.	1.5000	0.10E+04	0.0000	AC	1	7	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	5			
ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AC	5	4	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	5			
ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AC	4	5	1	4
ANALOG OUTPUT INTERFACE,	13.	1.5000	0.10E+04	0.0000	AC	1	5	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	6			

[illegible]

ANALOG INPUT INTERFACE,	13.	17.0000	0.00E+00	0.00E+00	AC	5			
ANALOG OUTPUT INTERFACE,	13.	17.0000	0.30E+04	0.0000	AC	1	4	1	4
ANALOG INPUT INTERFACE,	13.	17.0000	0.00E+00	0.00E+00	AC	5			
ANALOG OUTPUT INTERFACE,	13.	17.0000	0.30E+04	0.0000	AC	1	4	1	4
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 4 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 4 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 4 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 4 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 4 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 4 1	4				
ANALOG INPUT INTERFACE,	13.	30.0000	0.00E+00	-0.15E+02	DC	3			
ANALOG OUTPUT INTERFACE,	13.	30.0000	0.50E+04	-15.0000	DC	4	4	1	4
DISCRETE OUTPUT INTERFACE,	0.40E+01	-0.40E+01	0.10E+04	P	4	4	1	4	
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 4 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		1 5 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	20		1 5 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		1 5 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	20		1 5 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		1 5 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 5 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 5 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 5 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	20		3 5 1	4				
ANALOG INPUT INTERFACE,	13.	30.0000	0.00E+00	-0.15E+02	DC	4			
ANALOG OUTPUT INTERFACE,	13.	30.0000	0.50E+04	-15.0000	DC	4	5	1	4
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 4 1	4				
ANALOG OUTPUT INTERFACE,	12.	16.0000	0.10E+05	-2.5000	DC	4	4	1	4
ANALOG OUTPUT INTERFACE,	12.	16.0000	0.10E+05	-2.5000	DC	4	4	1	4
ANALOG INPUT INTERFACE,	12.	0.4000	0.10E+03	-0.20E+00	DC	5			
ANALOG OUTPUT INTERFACE,	12.	0.4000	0.10E+04	-0.2000	DC	4	4	1	4



ANALOG INPUT INTERFACE,	12.	0.4000	0.10E+03	-0.20E+00	DC	5			
ANALOG OUTPUT INTERFACE,	12.	0.4000	0.10E+04	-0.2000	DC	4	4	1	4
DISCRETE INPUT INTERFACE,	0.76E+00	0.00E+00	-0.48E+00	0.00E+00		5			
DISCRETE OUTPUT INTERFACE,	0.76E+00	-0.48E+00	0.10E+04	P	4	4	1	4	
DISCRETE INPUT INTERFACE,	0.76E+00	0.00E+00	-0.48E+00	0.00E+00		5			
DISCRETE OUTPUT INTERFACE,	0.76E+00	-0.48E+00	0.10E+04	P	4	4	1	4	
DISCRETE INPUT INTERFACE,	0.76E+00	0.00E+00	-0.48E+00	0.00E+00		5			
DISCRETE OUTPUT INTERFACE,	0.76E+00	-0.48E+00	0.10E+04	P	4	4	1	4	
DISCRETE INPUT INTERFACE,	0.76E+00	0.00E+00	-0.48E+00	0.00E+00		5			
DISCRETE OUTPUT INTERFACE,	0.76E+00	-0.48E+00	0.10E+04	P	4	4	1	4	
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	4	1	4			
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	4	1	4			
DISCRETE INPUT INTERFACE,	0.35E+02	0.00E+00	0.00E+00	0.10E+13		5			
DISCRETE OUTPUT INTERFACE,	0.35E+02	0.00E+00	0.10E+04	P	5	5	1	4	
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	5	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	5	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	5	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	5	5	5			
DISCRETE INPUT INTERFACE,	0.38E+00	0.00E+00	0.00E+00	0.10E+13		5			
ANALOG INPUT INTERFACE,	12.	0.4000	0.00E+00	-0.20E+00	DC	9			
ANALOG OUTPUT INTERFACE,	12.	0.4000	0.10E+04	-0.2000	DC	4	5	5	5
ANALOG INPUT INTERFACE,	12.	0.6000	0.00E+00	-0.30E+00	DC	5			
ANALOG OUTPUT INTERFACE,	12.	0.6000	0.20E+03	-0.3000	DC	4	5	5	5
SYNCHRO OUTPUT INTERFACE,	11.8 200		4	5	5	5			
SYNCHRO INPUT INTERFACE,	13.	22.5000	0.60E+03	4					
SYNCHRO OUTPUT INTERFACE,	22.5 30		5	5	5	5			
SYNCHRO INPUT INTERFACE,	13.	22.5000	0.60E+03	4					
SYNCHRO OUTPUT INTERFACE,	22.5 30		5	5	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8 200		1	5	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8 200		1	5	5	5			

SYNCHRO OUTPUT INTERFACE,	11.8	200	1	5	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8	200	1	5	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8	200	1	5	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8	200	5	5	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8	200	5	5	5	5			
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		4	4	5	5	5		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		4	4	5	5	5		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		4	4	5	5	5		
ANALOG OUTPUT INTERFACE,	12.	30.0000	0.60E+04	-15.0000	DC	5	4	5	5
ANALOG OUTPUT INTERFACE,	12.	13.0000	0.13E+05	-6.5000	DC	3	4	5	5
ANALOG OUTPUT INTERFACE,	12.	13.0000	0.13E+05	-6.5000	DC	5	4	5	5
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		4	4	5	5	4		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		4	4	5	5	4		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		4	4	5	5	4		
SYNCHRO OUTPUT INTERFACE,	11.8	20	1	4	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8	20	1	4	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8	20	4	4	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8	20	4	4	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8	20	4	1	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8	20	4	1	5	5			
SYNCHRO OUTPUT INTERFACE,	11.8	20	4	1	5	5			
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		5	1	5	5	4		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		5	1	5	5	4		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		5	1	5	5	4		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		5	1	5	5	4		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		5	1	5	5	4		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		5	1	5	5	4		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		5	1	5	5	4		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		5	1	5	5	4		
DIG/NUM INTERFACES, SERIAL DIGITAL	SERIAL DIGITAL		5	1	5	5	4		

[illegible]



ANALOG INPUT INTERFACE,	13,	50,0000	0.10E+03	0.00E+00	AC	4				
ANALOG OUTPUT INTERFACE,	13,	50,0000	0.80E+04	0.0000	AG	1	1	1	1	5
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL				4	1	1	5	4
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL				4	1	1	9	4
ANALOG INPUT INTERFACE,	7,	-20,0000	0.00E+00	0.00E+00	DC	1				
ANALOG OUTPUT INTERFACE,	7,	-20,0000	0.20E+05	0.0000	DC	4	1	1	1	5
DISCRETE INPUT INTERFACE,		0.30E+00	0.00E+00	0.00E+00	0.10E+13	3				
DISCRETE INPUT INTERFACE,		0.15E+02	0.00E+00	0.00E+00	0.10E+13	3				

UNMATCHED SIGNAL SUMMARY

DISCRETE INPUT	ANALOG INPUT	SYNCHRO INPUT	DIG/NUM	DISCRETE OUTPUT	ANALOG OUTPUT	SYNCHRO OUTPUT
16	36	2	72	7	80	93
TOTAL	298					

AFAL-TR-76-120

**SIGNAL COUNT SUMMARY**

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	262	206	68	19	302	264	21
2	483	0	51	49	0	512	28
3	0	0	14	0	0	0	19
4	0	0	14	0	0	0	13
5	0	0	0	0	0	0	39
TOTAL	745	206	147	68	302	776	116
TOTAL SIGNALS 2360							



AFAL-TR-76-120

TERMINAL NUMBER 1 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	80	31	18	19	90	47	15
2	113	0	7	0	0	134	2
3	0	0	0	0	0	0	6
4	0	0	4	0	0	0	5
5	0	0	0	0	0	0	13
TOTAL	193	31	29	19	90	181	41
TOTAL SIGNALS	584						

TERMINAL NUMBER 2 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	3	51	4	0	1	0	0
2	79	0	4	0	0	26	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	82	51	8	0	13	26	0
TOTAL SIGNALS	180						

TERMINAL NUMBER 3 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	19	41	11	0	7	24	0
2	30	0	0	0	0	53	1
3	0	0	1	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	3
TOTAL	49	41	12	0	7	77	4
TOTAL SIGNALS	190						

TERMINAL NUMBER 4 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	143	56	17	0	89	89	5
2	132	0	6	29	0	181	17
3	0	0	9	0	0	0	4
4	0	0	1	0	0	0	0
5	0	0	0	0	0	0	5
TOTAL	275	56	33	29	89	270	31
TOTAL SIGNALS	783						

## TERMINAL NUMBER 5 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	9	6	16	0	85	6	0
2	46	0	11	11	0	49	7
3	0	0	2	0	0	0	3
4	0	0	7	0	0	0	6
5	0	0	0	0	0	0	13
TOTAL	55	6	36	11	85	55	29
TOTAL SIGNALS	277						

## TERMINAL NUMBER 6 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	7	19	2	0	15	89	1
2	65	0	4	6	0	46	1
3	0	0	2	0	0	0	1
4	0	0	1	0	0	0	0
5	0	0	0	0	0	0	1
TOTAL	72	19	9	6	15	135	4
TOTAL SIGNALS	260						

## TERMINAL NUMBER 7 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	2	0	0	3	9	0
2	18	0	19	3	0	23	0
3	0	0	0	0	0	0	5
4	0	0	1	0	0	0	2
5	0	0	0	0	0	0	0
TOTAL	19	2	20	3	3	32	7
TOTAL SIGNALS	86						

AFAL-TR-76-120

PDI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	80	113	0	0	0	193
2	3	79	0	0	0	82
3	19	30	0	0	0	49
4	143	132	0	0	0	275
5	9	46	0	0	0	55
6	7	65	0	0	0	72
7	1	18	0	0	0	19
TOTAL	262	483	0	0	0	745

ADI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	31	0	0	0	0	31
2	51	0	0	0	0	51
3	41	0	0	0	0	41
4	56	0	0	0	0	56
5	6	0	0	0	0	6
6	19	0	0	0	0	19
7	2	0	0	0	0	2
TOTAL	206	0	0	0	0	206

AI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	18	7	0	4	0	29
2	4	4	0	0	0	8
3	11	0	1	0	0	12
4	17	6	9	1	0	33
5	16	11	2	7	0	36
6	2	4	2	1	0	9
7	0	19	0	1	0	20
TOTAL	68	51	14	14	0	147



## SI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	19	0	0	0	0	19
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	29	0	0	0	29
5	0	11	0	0	0	11
6	0	6	0	0	0	6
7	0	3	0	0	0	3
TOTAL	19	49	0	0	0	68

## PDO SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	90	0	0	0	0	90
2	13	0	0	0	0	13
3	7	0	0	0	0	7
4	89	0	0	0	0	89
5	85	0	0	0	0	85
6	15	0	0	0	0	15
7	3	0	0	0	0	3
TOTAL	302	0	0	0	0	302

## ADO SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	47	134	0	0	0	181
2	0	26	0	0	0	26
3	24	53	0	0	0	77
4	89	181	0	0	0	270
5	6	49	0	0	0	55
6	89	46	0	0	0	135
7	9	23	0	0	0	32
TOTAL	264	512	0	0	0	776

AFAL-TR-76-120

AO SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	15	2	6	5	13	41
2	0	0	0	0	0	0
3	0	1	0	0	3	4
4	5	17	4	0	5	31
5	0	7	3	6	13	29
6	1	1	1	0	1	4
7	0	0	5	2	0	7
TOTAL	21	28	19	13	35	116

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MODULE COUNT SUMMARY, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	13	10	6	3	13	11	4
2	19	0	7	8	0	19	7
3	0	0	4	0	0	0	5
4	0	0	5	0	0	0	3
5	0	0	0	0	0	0	7
TOTAL	32	10	22	11	13	30	26
TOTAL MODULES		144					

AFAL-TR-76-120

MODULE COUNT SUMMARY, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	24	19	12	5	26	21	8
2	34	0	13	15	0	36	13
3	0	0	8	0	0	0	10
4	0	0	10	0	0	0	6
5	0	0	0	0	0	0	14
TOTAL	58	19	43	20	26	57	51
TOTAL MODULES	274						



## TERMINAL NUMBER 1 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	3	1	1	3	1	2	2
2	4	0	1	0	0	8	1
3	0	0	0	0	0	0	1
4	0	0	1	0	0	0	1
5	0	0	0	0	0	0	2
TOTAL	7	1	3	3	3	7	7
TOTAL MODULES		31					

## TERMINAL NUMBER 2 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	2	1	0	1	0	0
2	3	0	1	0	0	1	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	4	2	2	0	1	1	0
TOTAL MODULES		10					

## TERMINAL NUMBER 3 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	2	1	0	1	1	0
2	1	0	0	0	0	2	1
3	0	0	1	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	1
TOTAL	2	2	2	0	1	3	2
TOTAL MODULES		12					

## TERMINAL NUMBER 4 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	5	2	1	0	3	9	1
2	5	0	1	4	0	6	3
3	0	0	1	0	0	0	1
4	0	0	1	0	0	0	0
5	0	0	0	0	0	0	1
TOTAL	10	2	4	4	3	9	6
TOTAL MODULES		38					



AFAL-TR-76-120

TERMINAL NUMBER 1 MODULE COUNT, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	5	2	2	5	6	3	4
2	8	0	2	0	0	9	2
3	0	0	0	0	0	0	2
4	0	0	2	0	0	0	2
5	0	0	0	0	0	0	4
TOTAL	13	2	6	5	6	12	14
TOTAL MODULES		59					

TERMINAL NUMBER 2 MODULE COUNT, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	2	4	2	0	9	0	0
2	5	0	2	0	0	2	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
TOTAL	7	4	4	0	2	2	0
TOTAL MODULES		19					

TERMINAL NUMBER 3 MODULE COUNT, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	2	3	2	0	5	2	0
2	2	0	0	0	0	4	2
3	0	0	2	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	2
TOTAL	4	3	4	0	2	6	4
TOTAL MODULES		23					

TERMINAL NUMBER 4 MODULE COUNT, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	9	4	2	0	6	6	2
2	9	0	2	0	0	12	5
3	0	0	2	0	0	0	2
4	0	0	2	0	0	0	0
5	0	0	0	0	0	0	2
TOTAL	18	4	8	0	6	18	11
TOTAL MODULES		73					

## TERMINAL NUMBER 5 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	1	1	0	3	1	0
2	2	0	1	2	0	2	1
3	0	0	1	0	0	0	1
4	0	0	1	0	0	0	1
5	0	0	0	0	0	0	2
TOTAL	3	1	4	2	3	3	5
TOTAL MODULES	21						

## TERMINAL NUMBER 6 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	1	1	0	1	3	1
2	3	0	1	1	0	2	1
3	0	0	1	0	0	0	1
4	0	0	1	0	0	0	0
5	0	0	0	0	0	0	1
TOTAL	4	1	4	1	1	5	4
TOTAL MODULES	20						

## TERMINAL NUMBER 7 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	1	0	0	1	1	0
2	1	0	2	1	0	1	0
3	0	0	0	0	0	0	1
4	0	0	1	0	0	0	1
5	0	0	0	0	0	0	0
TOTAL	2	1	3	1	1	2	2
TOTAL MODULES	12						



AFAL-TR-76-120

TERMINAL NUMBER 5 MODULE COUNT, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	2	2	2	0	6	2	0
2	3	0	2	3	0	4	2
3	0	0	2	0	0	0	2
4	0	0	2	0	0	0	2
5	0	0	0	0	0	0	4
TOTAL	5	2	8	3	6	6	10
TOTAL MODULES	40						

TERMINAL NUMBER 6 MODULE COUNT, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	2	2	2	0	5	6	2
2	5	0	2	2	0	3	2
3	0	0	2	0	0	0	2
4	0	0	2	0	0	0	0
5	0	0	0	0	0	0	2
TOTAL	7	2	8	2	2	9	8
TOTAL MODULES	38						

TERMINAL NUMBER 7 MODULE COUNT, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	2	2	0	0	2	2	0
2	2	0	3	2	0	2	0
3	0	0	0	0	0	0	2
4	0	0	2	0	0	0	2
5	0	0	0	0	0	0	0
TOTAL	4	2	5	2	2	4	4
TOTAL MODULES	23						



## PDI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	3	4	0	0	0	7
2	1	3	0	0	0	4
3	1	1	0	0	0	2
4	5	5	0	0	0	10
5	1	2	0	0	0	3
6	1	3	0	0	0	4
7	1	1	0	0	0	2
TOTAL	13	19	0	0	0	32

## ADI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	1	0	0	0	0	1
2	2	0	0	0	0	2
3	2	0	0	0	0	2
4	2	0	0	0	0	2
5	1	0	0	0	0	1
6	1	0	0	0	0	1
7	1	0	0	0	0	1
TOTAL	10	0	0	0	0	10

## AI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	1	1	0	1	0	3
2	1	1	0	0	0	2
3	1	0	1	0	0	2
4	1	1	1	1	0	4
5	1	1	1	1	0	4
6	1	1	1	1	0	4
7	0	2	0	1	0	3
TOTAL	6	7	4	5	0	22

AFAL-TR-76-120

PDI SSIM MODULE COUNT, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	5	8	0	0	0	13
2	2	5	0	0	0	7
3	2	2	0	0	0	4
4	9	9	0	0	0	18
5	2	3	0	0	0	5
6	2	5	0	0	0	7
7	2	2	0	0	0	4
TOTAL	24	34	0	0	0	58

ADI SSIM MODULE COUNT, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	2	0	0	0	0	2
2	4	0	0	0	0	4
3	3	0	0	0	0	3
4	4	0	0	0	0	4
5	2	0	0	0	0	2
6	2	0	0	0	0	2
7	2	0	0	0	0	2
TOTAL	19	0	0	0	0	19

AI SSIM MODULE COUNT, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	2	2	0	2	0	6
2	2	2	0	0	0	4
3	2	0	2	0	0	4
4	2	2	2	2	0	8
5	2	2	2	2	0	8
6	2	2	2	2	0	8
7	0	3	0	2	0	5
TOTAL	12	13	8	10	0	43



## SI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	3	0	0	0	0	3
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	4	0	0	0	4
5	0	2	0	0	0	2
6	0	1	0	0	0	1
7	0	1	0	0	0	1
TOTAL	3	8	0	0	0	11

## PDO SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	3	0	0	0	0	3
2	1	0	0	0	0	1
3	1	0	0	0	0	1
4	3	0	0	0	0	3
5	3	0	0	0	0	3
6	1	0	0	0	0	1
7	1	0	0	0	0	1
TOTAL	13	0	0	0	0	13

## ADD SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	2	5	0	0	0	7
2	0	1	0	0	0	1
3	1	2	0	0	0	3
4	3	6	0	0	0	9
5	1	2	0	0	0	3
6	3	2	0	0	0	5
7	1	1	0	0	0	2
TOTAL	11	19	0	0	0	30



AFAL-TR-76-120

SI SSIM MODULE COUNT, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	5	0	0	0	0	5
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	8	0	0	0	8
5	0	3	0	0	0	3
6	0	2	0	0	0	2
7	0	2	0	0	0	2
TOTAL	5	15	0	0	0	20

PDO SSIM MODULE COUNT, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	6	0	0	0	0	6
2	2	0	0	0	0	2
3	2	0	0	0	0	2
4	6	0	0	0	0	6
5	6	0	0	0	0	6
6	2	0	0	0	0	2
7	2	0	0	0	0	2
TOTAL	26	0	0	0	0	26

ADD SSIM MODULE COUNT, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	3	9	0	0	0	12
2	0	2	0	0	0	2
3	2	4	0	0	0	6
4	6	12	0	0	0	18
5	2	4	0	0	0	6
6	6	3	0	0	0	9
7	2	2	0	0	0	4
TOTAL	21	36	0	0	0	57

AFAL-TR-76-120

AO SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	2	1	1	1	2	7
2	0	0	0	0	0	0
3	0	1	0	0	1	2
4	1	3	1	0	1	6
5	0	1	1	1	2	5
6	1	1	1	0	1	4
7	0	0	1	1	0	2
TOTAL	4	7	5	3	7	26

AFAL-TR-76-120

AO SSIM MODULE COUNT, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	4	2	2	2	4	14
2	0	0	0	0	0	0
3	0	2	0	0	2	4
4	2	5	2	0	2	11
5	0	2	2	2	4	10
6	2	2	2	0	2	8
7	0	0	2	2	0	4
TOTAL	8	13	10	6	14	51



UTILIZATION FACTOR SUMMARY, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.63	.64	.35	.79	.73	.79	.66
2	.79	.00	.46	.77	.00	.84	.50
3	.00	.00	.11	.00	.00	.00	.48
4	.00	.00	.18	.00	.00	.00	.54
5	.00	.00	.00	.00	.00	.00	.43
TOTAL	.73	.64	.29	.77	.73	.81	.56
OVERALL UTILIZATION FACTOR	.67						

## UTILIZATION FACTOR SUMMARY, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.68	.68	.35	.95	.73	.79	.66
2	.89	.00	.49	.82	.00	.89	.54
3	.00	.00	.11	.00	.00	.00	.48
4	.00	.00	.18	.00	.00	.00	.54
5	.00	.00	.00	.00	.00	.00	.63
TOTAL	.80	.68	.29	.85	.73	.85	.57
OVERALL UTILIZATION FACTOR	.70						

## TERMINAL NUMBER 1 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.83	.97	.56	.79	.94	.73	.94
2	.88	.00	.44	.00	.00	.84	.25
3	.00	.00	.00	.00	.00	.00	.75
4	.00	.00	.28	.00	.00	.00	.63
5	.00	.00	.00	.00	.00	.00	.81
TOTAL	.86	.97	.48	.79	.94	.81	.73
TERMINAL UTILIZATION FACTOR				.81			

## TERMINAL NUMBER 2 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.09	.80	.13	.00	.41	.00	.00
2	.82	.00	.25	.00	.00	.81	.00
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.84	.80	.17	.00	.41	.81	.00
TERMINAL UTILIZATION FACTOR				.59			

## TERMINAL NUMBER 3 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.59	.64	.34	.00	.22	.78	.00
2	.94	.00	.00	.00	.00	.83	.13
3	.00	.00	.03	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.38
TOTAL	.77	.64	.19	.00	.22	.80	.28
TERMINAL UTILIZATION FACTOR				.57			

## TERMINAL NUMBER 4 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.89	.88	.53	.00	.93	.93	.63
2	.83	.00	.38	.91	.00	.94	.71
3	.00	.00	.28	.00	.00	.00	.50
4	.00	.00	.06	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.63
TOTAL	.86	.88	.34	.91	.93	.94	.65
TERMINAL UTILIZATION FACTOR				.83			



AFAL-TR-76-120

TERMINAL NUMBER 1 UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1.00	.97	.46	.95	.94	.94	.94
2	.88	.00	.44	.00	.00	.93	.25
3	.00	.00	.00	.00	.00	.00	.75
4	.00	.00	.25	.00	.00	.00	.63
5	.00	.00	.00	.00	.00	.00	.81
TOTAL	.93	.97	.45	.95	.94	.94	.73
TERMINAL UTILIZATION FACTOR			.87				

TERMINAL NUMBER 2 UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.09	.80	.13	.00	.41	.00	.00
2	.99	.00	.25	.00	.00	.81	.00
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.73	.80	.17	.00	.41	.81	.00
TERMINAL UTILIZATION FACTOR			.63				

TERMINAL NUMBER 3 UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.59	.85	.34	.00	.25	.75	.00
2	.94	.00	.00	.00	.00	.83	.13
3	.00	.00	.03	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.38
TOTAL	.77	.85	.19	.00	.22	.80	.25
TERMINAL UTILIZATION FACTOR			.59				

TERMINAL NUMBER 4 UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.99	.88	.43	.00	.93	.93	.63
2	.92	.00	.38	.91	.00	.94	.85
3	.00	.00	.28	.00	.00	.00	.50
4	.00	.00	.06	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.63
TOTAL	.94	.88	.34	.91	.93	.94	.70
TERMINAL UTILIZATION FACTOR			.86				

## TERMINAL NUMBER 5 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	POI	ADI	AI	SI	PDO	ADO	AO
1	.28	.19	.50	.00	.89	.19	.00
2	.72	.00	.69	.69	.00	.77	.00
3	.00	.00	.06	.00	.00	.00	.38
4	.00	.00	.44	.00	.00	.00	.78
5	.00	.00	.00	.00	.00	.00	.81
TOTAL	.57	.19	.38	.69	.89	.57	.73
TERMINAL UTILIZATION FACTOR .59							

## TERMINAL NUMBER 6 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	POI	ADI	AI	SI	PDO	ADO	AO
1	.22	.59	.06	.00	.47	.93	.13
2	.68	.00	.28	.75	.00	.72	.13
3	.00	.00	.06	.00	.00	.00	.13
4	.00	.00	.06	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.13
TOTAL	.56	.59	.09	.75	.47	.84	.13
TERMINAL UTILIZATION FACTOR .53							

## TERMINAL NUMBER 7 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	POI	ADI	AI	SI	PDO	ADO	AO
1	.03	.06	.00	.00	.09	.38	.00
2	.56	.00	.59	.38	.00	.72	.00
3	.00	.00	.00	.00	.00	.00	.63
4	.00	.00	.06	.00	.00	.00	.28
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.30	.06	.42	.38	.09	.50	.44
TERMINAL UTILIZATION FACTOR .33							



AFAL-TR-76-120

TERMINAL NUMBER 5 UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.28	.19	.50	.00	.89	.19	.00
2	.96	.00	.69	.92	.00	.77	.88
3	.00	.00	.06	.00	.00	.00	.38
4	.00	.00	.44	.00	.00	.00	.75
5	.00	.00	.00	.00	.00	.00	.81
TOTAL	.69	.19	.38	.92	.89	.57	.73
TERMINAL UTILIZATION FACTOR			.61				

TERMINAL NUMBER 6 UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.22	.59	.06	.00	.47	.93	.13
2	.81	.00	.25	.75	.00	.96	.13
3	.00	.00	.06	.00	.00	.00	.13
4	.00	.00	.06	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.13
TOTAL	.64	.59	.09	.75	.47	.94	.13
TERMINAL UTILIZATION FACTOR			.57				

TERMINAL NUMBER 7 UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.03	.06	.00	.00	.09	.26	.00
2	.56	.00	.79	.38	.00	.72	.00
3	.00	.00	.00	.00	.00	.00	.63
4	.00	.00	.06	.00	.00	.00	.25
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.30	.06	.40	.38	.09	.50	.44
TERMINAL UTILIZATION FACTOR			.34				



## PDI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.63	.88	.00	.00	.00	.66
2	.09	.82	.00	.00	.00	.64
3	.59	.94	.00	.00	.00	.77
4	.69	.83	.00	.00	.00	.66
5	.28	.72	.00	.00	.00	.57
6	.22	.68	.00	.00	.00	.56
7	.03	.56	.00	.00	.00	.30
TOTAL	.63	.79	.00	.00	.00	.73

## ADI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.97	.00	.00	.00	.00	.97
2	.80	.00	.00	.00	.00	.80
3	.64	.00	.00	.00	.00	.64
4	.88	.00	.00	.00	.00	.88
5	.19	.00	.00	.00	.00	.19
6	.59	.00	.00	.00	.00	.59
7	.06	.00	.00	.00	.00	.06
TOTAL	.64	.00	.00	.00	.00	.64

## AI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.56	.44	.00	.25	.00	.45
2	.13	.25	.00	.00	.00	.17
3	.34	.00	.03	.00	.00	.19
4	.53	.38	.28	.06	.00	.34
5	.50	.69	.06	.44	.00	.38
6	.06	.25	.06	.06	.00	.09
7	.00	.59	.00	.06	.00	.42
TOTAL	.35	.46	.11	.18	.00	.29

AFAL-TR-76-120

PDI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	1.00	.88	.00	.00	.00	.93
2	.09	.99	.00	.00	.00	.73
3	.59	.94	.00	.00	.00	.77
4	.99	.92	.00	.00	.00	.95
5	.28	.96	.00	.00	.00	.69
6	.22	.81	.00	.00	.00	.64
7	.03	.56	.00	.00	.00	.30
TOTAL	.68	.89	.00	.00	.00	.60

ADI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	.97	.00	.00	.00	.00	.97
2	.80	.00	.00	.00	.00	.80
3	.85	.00	.00	.00	.00	.85
4	.88	.00	.00	.00	.00	.88
5	.19	.00	.00	.00	.00	.19
6	.59	.00	.00	.00	.00	.59
7	.06	.00	.00	.00	.00	.06
TOTAL	.68	.00	.00	.00	.00	.68

AI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	.56	.44	.00	.25	.00	.45
2	.13	.75	.00	.00	.00	.17
3	.34	.00	.03	.00	.00	.19
4	.53	.38	.28	.06	.00	.34
5	.50	.69	.06	.44	.00	.38
6	.06	.25	.06	.06	.00	.09
7	.00	.79	.00	.06	.00	.50
TOTAL	.35	.49	.11	.18	.00	.29



## SI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.79	.00	.00	.00	.00	.79
2	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00
4	.00	.91	.00	.00	.00	.91
5	.00	.69	.00	.00	.00	.69
6	.00	.75	.00	.00	.00	.75
7	.00	.38	.00	.00	.00	.38
TOTAL	.79	.77	.00	.00	.00	.77

## PDO SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.94	.00	.00	.00	.00	.94
2	.41	.00	.00	.00	.00	.41
3	.22	.00	.00	.00	.00	.22
4	.93	.00	.00	.00	.00	.93
5	.89	.00	.00	.00	.00	.89
6	.47	.00	.00	.00	.00	.47
7	.09	.00	.00	.00	.00	.09
TOTAL	.73	.00	.00	.00	.00	.73

## ADD SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.73	.84	.00	.00	.00	.81
2	.00	.81	.00	.00	.00	.81
3	.75	.83	.00	.00	.00	.80
4	.93	.94	.00	.00	.00	.94
5	.19	.77	.00	.00	.00	.87
6	.93	.72	.00	.00	.00	.84
7	.28	.72	.00	.00	.00	.80
TOTAL	.75	.84	.00	.00	.00	.81



## SI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	.95	.00	.00	.00	.00	.95
2	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00
4	.00	.91	.00	.00	.00	.91
5	.00	.92	.00	.00	.00	.92
6	.00	.75	.00	.00	.00	.75
7	.00	.38	.00	.00	.00	.38
TOTAL	.95	.92	.00	.00	.00	.85

## PDO SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	.94	.00	.00	.00	.00	.94
2	.41	.00	.00	.00	.00	.41
3	.22	.00	.00	.00	.00	.22
4	.93	.00	.00	.00	.00	.93
5	.89	.00	.00	.00	.00	.89
6	.47	.00	.00	.00	.00	.47
7	.09	.00	.00	.00	.00	.09
TOTAL	.73	.00	.00	.00	.00	.73

## ADO SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	.98	.93	.00	.00	.00	.94
2	.00	.81	.00	.00	.00	.81
3	.75	.83	.00	.00	.00	.80
4	.93	.94	.00	.00	.00	.94
5	.19	.77	.00	.00	.00	.57
6	.93	.96	.00	.00	.00	.94
7	.28	.72	.00	.00	.00	.50
TOTAL	.79	.89	.00	.00	.00	.85

## AO SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.94	.25	.75	.63	.01	.73
2	.00	.00	.00	.00	.00	.00
3	.00	.13	.00	.00	.38	.38
4	.63	.71	.50	.00	.63	.65
5	.00	.88	.38	.75	.01	.73
6	.13	.13	.13	.00	.13	.13
7	.00	.00	.63	.25	.00	.44
TOTAL	.66	.50	.48	.54	.63	.66

NORMAL EOJ

AFAL-TR-76-120

AO SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 2

SSIM TERM	1	2	3	4	5	TOTAL
1	.94	.25	.75	.63	.81	.73
2	.00	.00	.00	.00	.00	.00
3	.00	.13	.00	.00	.38	.25
4	.63	.85	.50	.00	.63	.70
5	.00	.88	.38	.75	.81	.73
6	.13	.13	.13	.00	.13	.13
7	.00	.00	.63	.25	.00	.44
TOTAL	.66	.54	.48	.54	.63	.57

NORMAL EOJ



6. SYSTEM "C" SIAAP ANALYSIS

AFAL-TR-76-120

PASSIVE DISCRETE INPUT SSIM

1	2.0000 LOTV	0.0000 LZTV	.10E+06 IZ	0.0010 PWR	32 CHAN/MOD
2	10.0000 LOTV	12.0000 LZTV	.10E+06 IZ	0.0100 PWR	32 CHAN/MOD

ACTIVE DISCRETE INPUT SSIM

1	.50E+05 LOZI	.10E+04 LZTZ	32 CHAN/MOD
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ANALOG INPUT SSIM

1	10.0000 CRUR	-2.5000 CRLR	.10E+07 IZ	13. QUAN	TYPE DC	32 CHAN/MOD		
GAINS	2.000	1.000	0.500	0.400	0.250	0.100	0.000	0.000
2	10.0000 CRUR	0.0000 CRLR	.10E+07 IZ	13. QUAN	TYPE AC	16 CHAN/MOD		
GAINS	4.000	2.000	1.000	0.500	0.400	0.250	0.100	0.000
3	1.5000 CRUR	0.0000 CRLR	.10E+07 IZ	13. QUAN	TYPE	16 CHAN/MOD		
GAINS	4.000	2.000	1.000	0.500	0.400	0.250	0.100	0.000

SYNCHRO INPUT SSIM

1	11.8000 VR	.20E+05 IZ	13. QUAN	8 CHAN/MOD
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PASSIVE DISCRETE OUTPUT SSIM

1	.50E+02 LOZ	.10E+06 LZZ	200.0000 CSM	32 CHAN/MOD
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ACTIVE DISCRETE OUTPUT SSIM

1	6.0000 LOV	0.0000 LZV	.00E+00 LOZ	.00E+00 LZZ	32 CHAN/MOD
2	20.0000 LOV	0.0000 LZV	.00E+00 LOZ	.00E+00 LZZ	32 CHAN/MOD

ANALOG OUTPUT SSIM

1	10.0000 VUR	-2.5000 VLB	.00E+00 SZ	13. QUAN	TYPE DC	8 CHAN/MOD
2	5.0000 VUR	-5.0000 VLB	.00E+00 SZ	13. QUAN	TYPE AC	8 CHAN/MOD
3	5.0000 VUR	-5.0000 VLB	.00E+00 SZ	13. QUAN	TYPE DC	8 CHAN/MOD
4	30.0000 VUR	-5.0000 VLB	.00E+00 SZ	13. QUAN	TYPE AC	8 CHAN/MOD
5	30.0000 VUR	-5.0000 VLB	.00E+00 SZ	13. QUAN	TYPE DC	8 CHAN/MOD

SYSTEM SYSC READ

SYSTEM SYSC FOUND

AFAL-TR-76-120

ISWIT = 0

TERMINAL 1 LRU ASSIGNMENTS

CM1A	CM1B	CM1C	CM1F	CM1H	CM1I	CM1J	CM1M	CO6E	DS1A
DS1C	DS1I	EL1A	EL2A	FC1A	FC2A	FM1A	FM2A	MS3A	NV6F
NV5E	NV5F	NV5G	TD1C	TD2B	TD3B	TD3C	TD3D	TD3M	TD3P
TD5A	TD7A	TD7C							

TERMINAL 2 LRU ASSIGNMENTS

CO1B	CO1C	CO6B	EL2B	EL2C	FC2B	FM2B	MS2A	TD1B	TD2C
TD4B	TD5B	TD5E							

TERMINAL 3 LRU ASSIGNMENTS

CO4B	CO5C	FC2C	FM2C	MP1B	NV2B	NV5C	NV6C	NV7B	TD5D
TD6B									

TERMINAL 4 LRU ASSIGNMENTS

CM1D	CM2A	CM2B	CM3B	CO1A	CO2B	CO3A	CO6A	CO6F	CO6G
CO7A	EL4A	FC4A	FM4A	MP1A	MP1C	NV2A	NV2C	NV3A	TD3A
TD4C	TD5C								

TERMINAL 5 LRU ASSIGNMENTS

CO2A	CO4A	CO5A	CM5B	CO6C	EL3A	EL4B	FC4B	FM4B	MS1A
NV1A	NV4A	NV4C	NV4E	NV5A	NV5B	NV6A	NV7A	TD6A	

TERMINAL 6 LRU ASSIGNMENTS

CM1N	CM3A	EL3B	EL3C	EL4C	EL4D	EL4F	FC3A	FC3B	FC4C
FC4D	FC4F	FM3C	FM4C	FM4E	NV2D	NV3B	NV4B	NV4D	NV6B
NV7C	TD1A	TD2A	TD2D	TD3E	TD3F	TD3G	TD3H	TD3I	TD3J
TD3K	TD3L	TD3N	TD3O	TD4A					

TERMINAL 7 LRU ASSIGNMENTS

CM1F	CM1G	CM1K	CM1L	CO2C	CO5D	CO6D	EL5A	FC5A	FM5A
NV5D	TD6C								



## UNMATCHED INTERFACE CHARACTERISTICS

[illegible]

SYNCHRO OUTPUT INTERFACE,	3.6	5		5	1	0	0		
SYNCHRO OUTPUT INTERFACE,	3.6	5		5	1	0	0		
SYNCHRO OUTPUT INTERFACE,	3.6	5		5	1	0	0		
SYNCHRO OUTPUT INTERFACE,	3.6	5		5	1	0	0		
SYNCHRO OUTPUT INTERFACE,	3.6	5		5	1	0	0		
SYNCHRO OUTPUT INTERFACE,	3.6	5		5	1	0	0		
SYNCHRO OUTPUT INTERFACE,	3.6	5		5	1	0	0		
DIG/NUM INTERFACES,			COMPUTER I/O		1	1	0	0	4
DIG/NUM INTERFACES,			COMPUTER I/O		1	1	0	0	1
ANALOG OUTPUT INTERFACE,	9.	49.0000	0.10E+05	0.0000	AC	1	1	5	0
DISCRETE INPUT INTERFACE,	0.19E+02	0.00E+00	0.00E+00	0.10E+13		1			
ANALOG OUTPUT INTERFACE,	8.	70.0000	0.20E+05	0.0000	AC	1	5	5	0
ANALOG INPUT INTERFACE,	13.	4.0000	0.00E+00	0.00E+00	DC	1			
ANALOG OUTPUT INTERFACE,	13.	4.0000	0.50E+04	0.0000	DC	1	5	5	0
DISCRETE INPUT INTERFACE,	0.36E+02	0.00E+00	0.00E+00	0.10E+13		2			
DISCRETE OUTPUT INTERFACE,	0.36E+02	0.00E+00	0.60E+03	P	7	5	5	0	
DISCRETE OUTPUT INTERFACE,	0.28E+02	0.00E+00	0.00E+00	P	4	2	2	0	
DISCRETE INPUT INTERFACE,	0.12E+02	0.00E+00	0.00E+00	0.10E+13		2			
DISCRETE INPUT INTERFACE,	0.12E+02	0.00E+00	0.00E+00	0.10E+13		2			
DISCRETE INPUT INTERFACE,	0.12E+02	0.00E+00	0.00E+00	0.10E+13		2			
SYNCHRO OUTPUT INTERFACE,	11.8	200		1	5	4	0		
SYNCHRO OUTPUT INTERFACE,	11.8	200		1	5	4	0		
ANALOG OUTPUT INTERFACE,	8.	44.5000	0.50E+03	11.5000	AC	7	1	4	0
ANALOG OUTPUT INTERFACE,	8.	24.5000	0.50E+03	14.5000	AC	7	1	4	0
SYNCHRO OUTPUT INTERFACE,	11.8	20		2	1	4	0		
SYNCHRO OUTPUT INTERFACE,	11.8	20		2	5	1	1		
SYNCHRO OUTPUT INTERFACE,	11.8	20		2	5	1	1		
SYNCHRO OUTPUT INTERFACE,	11.8	20		1	7	2	2		
ANALOG OUTPUT INTERFACE,	7.	0.0000	0.50E+02	0.0000		1	7	2	2
SYNCHRO OUTPUT INTERFACE,	11.8	20		1	7	2	2		



ANALOG OUTPUT INTERFACE,	9,	43,0000	0.10E+05	0.0000	AC	1	7	2	2
ANALOG OUTPUT INTERFACE,	12,	0,2000	0.20E+03	0.0000	AC	8	7	2	2
ANALOG OUTPUT INTERFACE,	12,	0,2000	0.20E+03	0.0000	AC	8	7	2	2
ANALOG OUTPUT INTERFACE,	12,	0,7500	0.60E+03	0.0000	AC	4	7	2	2
ANALOG OUTPUT INTERFACE,	12,	0,7500	0.60E+03	0.0000	AC	4	7	2	2
ANALOG OUTPUT INTERFACE,	12,	13,0000	0.50E+04	0.0000	AC	4	6	2	2
ANALOG OUTPUT INTERFACE,	12,	13,0000	0.50E+04	0.0000	AC	4	6	2	2
SYNCHRO OUTPUT INTERFACE,	11,8	20		2 6 2 2					
ANALOG INPUT INTERFACE,	12,	5,0000	0.00E+00	-0.25E+01	DC	4			
ANALOG OUTPUT INTERFACE,	12,	13,0000	0.10E+04	0.0000	AC	4	6	2	2
ANALOG OUTPUT INTERFACE,	12,	13,0000	0.10E+04	0.0000	AC	4	6	2	2
ANALOG OUTPUT INTERFACE,	2,	36,0000	0.50E+04	0.0000	AC	5	6	2	2
ANALOG INPUT INTERFACE,	12,	7,0000	0.00E+00	-0.20E+01	AC	4			
ANALOG INPUT INTERFACE,	12,	7,0000	0.00E+00	-0.20E+01	AC	4			
ANALOG OUTPUT INTERFACE,	12,	13,0000	0.50E+04	0.0000	AC	4	6	2	2
ANALOG OUTPUT INTERFACE,	12,	13,0000	0.50E+04	0.0000	AC	4	6	2	2
ANALOG OUTPUT INTERFACE,	12,	17,0000	0.50E+04	0.0000	AC	4	6	2	2
ANALOG INPUT INTERFACE,	12,	5,0000	0.00E+00	-0.25E+01	DC	4			
ANALOG OUTPUT INTERFACE,	12,	0,3000	0.30E+03	0.0000	AC	8	6	2	2
ANALOG OUTPUT INTERFACE,	12,	0,3000	0.30E+03	0.0000	AC	8	6	2	2
SYNCHRO OUTPUT INTERFACE,	11,8	20		4 6 2 2					
ANALOG OUTPUT INTERFACE,	12,	0,3000	0.50E+02	0.0000	AC	4	6	2	2
ANALOG OUTPUT INTERFACE,	12,	0,3000	0.50E+02	0.0000	AC	4	6	2	2
ANALOG INPUT INTERFACE,	12,	3,6000	0.00E+00	-0.18E+01	AC	8			
ANALOG OUTPUT INTERFACE,	12,	3,6000	0.10E+04	-1.8000	AC	4	6	2	2
ANALOG OUTPUT INTERFACE,	12,	0,3000	0.50E+02	0.0000	AC	4	6	2	2
ANALOG OUTPUT INTERFACE,	12,	0,3000	0.50E+02	0.0000	AC	4	6	2	2
SYNCHRO OUTPUT INTERFACE,	11,8	20		1 4 4 2					
ANALOG INPUT INTERFACE,	13,	10,0000	0.00E+00	0.10E+02	AC	1			
ANALOG OUTPUT INTERFACE,	13,	10,0000	0.10E+04	10,0000	AC	1	4	4	2



ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	1			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AC	1	4	4	2
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	1			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AG	1	4	4	2
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	1			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AC	1	4	4	2
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	2			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AG	1	6	7	2
ANALOG INPUT INTERFACE,	13.	4.0000	0.00E+00	0.30E+01	AC	2			
ANALOG OUTPUT INTERFACE,	13.	4.0000	0.50E+04	3.0000	AG	1	6	7	2
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	2			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AG	1	6	7	2
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	6			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AG	2	4	7	2
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	6			
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AG	2	4	7	2
ANALOG OUTPUT INTERFACE,	13.	1.5000	0.10E+04	0.0000	AC	1	4	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	4			
ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AG	2	4	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	4			
ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AG	5	7	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	4			
ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AC	5	7	1	4
ANALOG OUTPUT INTERFACE,	13.	1.5000	0.10E+04	0.0000	AG	1	7	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	5			
ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AC	5	4	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	5			
ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AG	4	5	1	4
ANALOG OUTPUT INTERFACE,	13.	1.5000	0.10E+04	0.0000	AC	1	5	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	6			

ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AC	7	5	1	4
ANALOG INPUT INTERFACE,	13.	3.5000	0.00E+00	0.35E+01	AC	7			
ANALOG OUTPUT INTERFACE,	13.	3.5000	0.50E+04	3.5000	AC	4	6	1	4
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 1 1	4				
DIG/NUM INTERFACES, COMPUTER I/O						4	1	1	4 4
ANALOG INPUT INTERFACE,	13.	17.0000	0.00E+00	0.00E+00	AC	5			
ANALOG INPUT INTERFACE,	13.	17.0000	0.00E+00	0.00E+00	AC	5			
ANALOG INPUT INTERFACE,	13.	17.0000	0.00E+00	0.00E+00	AC	5			
ANALOG INPUT INTERFACE,	13.	17.0000	0.00E+00	0.00E+00	AC	5			
ANALOG INPUT INTERFACE,	13.	17.0000	0.00E+00	0.00E+00	AC	5			
ANALOG INPUT INTERFACE,	13.	17.0000	0.00E+00	0.00E+00	AC	5			
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 4 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 4 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 4 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 4 1	4				
ANALOG INPUT INTERFACE,	13.	30.0000	0.00E+00	-0.15E+02	DC	3			
ANALOG OUTPUT INTERFACE,	13.	30.0000	0.50E+04	-15.0000	DC	4	4	1	4
DISCRETE OUTPUT INTERFACE,	0.40E+01	-0.40E+01	0.10E+04	P	4	4	1	4	
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 4 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		5 4 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	20		1 5 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	20		1 5 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 5 1	4				
SYNCHRO OUTPUT INTERFACE,	11.8	200		4 5 1	4				
ANALOG INPUT INTERFACE,	12.	8.0000	0.00E+00	-0.40E+01	DC	4			
SYNCHRO OUTPUT INTERFACE,	11.8	20		3 5 1	4				
ANALOG INPUT INTERFACE,	13.	30.0000	0.00E+00	-0.15E+02	DC	4			
ANALOG OUTPUT INTERFACE,	13.	30.0000	0.50E+04	-15.0000	DC	4	5	1	4
SYNCHRO OUTPUT INTERFACE,	11.8	20		4 5 1	4				
DISCRETE INPUT INTERFACE,	0.35E+02	0.00E+00	0.00E+00	0.10E+13	5				



DISCRETE OUTPUT INTERFACE,	0.35E+02	0.00E+00	0.10E+04	P	5	5	1	4
DISCRETE INPUT INTERFACE,	0.38E+00	0.00E+00	0.00E+00	0.10E+13	5			
ANALOG INPUT INTERFACE,	12.	0.4000	0.00E+00	-0.20E+00	DC	5		
ANALOG INPUT INTERFACE,	12.	0.6000	0.00E+00	-0.30E+00	DC	5		
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	1	5	1	4	5	
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	1	5	1	4	5	
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	1	5	1	4	5	
ANALOG INPUT INTERFACE,	12.	30.0000	0.00E+00	-0.15E+02	DC	3		
ANALOG INPUT INTERFACE,	12.	13.0000	0.00E+00	-0.65E+01	DC	6		
ANALOG OUTPUT INTERFACE,	12.	13.0000	0.13E+05	-6.5000	DC	3	5	1 4
ANALOG INPUT INTERFACE,	12.	13.0000	0.00E+00	-0.65E+01	DC	6		
ANALOG OUTPUT INTERFACE,	12.	13.0000	0.13E+05	-6.5000	DC	5	5	1 4
DISCRETE OUTPUT INTERFACE,	0.50E+02	0.28E+02	0.00E+00	0	5	5	1	4
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	6		
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AC	2	1	1 4
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	6		
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AC	2	1	1 4
ANALOG INPUT INTERFACE,	13.	10.0000	0.00E+00	0.10E+02	AC	6		
ANALOG OUTPUT INTERFACE,	13.	10.0000	0.10E+05	10.0000	AC	2	1	1 4
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	5	1	1	4	2	
DISCRETE INPUT INTERFACE,	0.15E+02	0.00E+00	0.00E+00	0.10E+13	1			
DISCRETE INPUT INTERFACE,	0.15E+02	0.00E+00	0.00E+00	0.10E+13	1			
DISCRETE INPUT INTERFACE,	0.15E+02	0.00E+00	0.00E+00	0.10E+13	1			
ANALOG INPUT INTERFACE,	13.	50.0000	0.10E+03	0.00E+00	AC	4		
ANALOG OUTPUT INTERFACE,	13.	50.0000	0.50E+04	0.0000	AC	1	1	1 4
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	3	1	1	4	4	
DIG/NUM INTERFACES,	SERIAL DIGITAL	SERIAL DIGITAL	3	1	1	4	4	
ANALOG INPUT INTERFACE,	7.	-20.0000	0.00E+00	0.00E+00	DC	3		
ANALOG OUTPUT INTERFACE,	7.	-20.0000	0.20E+05	0.0000	DC	4	1	1 4
DISCRETE INPUT INTERFACE,	0.30E+00	0.00E+00	0.00E+00	0.10E+13	3			



AFAL-TR-76-120

DISCRETE INPUT INTERFAC, 0.15E+02 0.00E+00 0.00E+00 0.10E+13 3

UNMATCHED SIGNAL SUMMARY					
DISCRETE INPUT	ANALOG INPUT	SYNCHRO INPUT	DIG/HUM	DISCRETE OUTPUT	ANALOG OUTPUT
13	41	0	15	5	60
					SYNCHRO OUTPUT
					48
TOTAL			102		

AFAL-TR-76-120

**SIGNAL COUNT SUMMARY**

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	124	204	72	32	230	209	21
2	497	0	40	0	0	435	27
3	0	0	14	0	0	0	11
4	0	0	0	0	0	0	13
5	0	0	0	0	0	0	24
TOTAL	581	204	136	32	230	640	96
TOTAL SIGNALS	1919						



AFAL-TR-76-120

TERMINAL NUMBER 1 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	53	30	16	0	52	44	15
2	107	0	6	0	0	90	1
3	0	0	4	0	0	0	2
4	0	0	0	0	0	0	5
5	0	0	0	0	0	0	12
TOTAL	160	30	26	0	52	134	32
TOTAL SIGNALS	434						

TERMINAL NUMBER 2 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	19	53	15	0	16	7	0
2	112	0	4	0	0	59	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	2
TOTAL	131	53	19	0	16	66	2
TOTAL SIGNALS	287						

TERMINAL NUMBER 3 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	13	37	3	0	0	19	2
2	14	0	0	0	0	22	1
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	1
TOTAL	27	37	3	0	0	41	4
TOTAL SIGNALS	112						

TERMINAL NUMBER 4 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	18	58	28	15	54	27	1
2	96	0	6	0	0	136	17
3	0	0	1	0	0	0	3
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	4
TOTAL	114	58	35	15	54	163	25
TOTAL SIGNALS	464						

## TERMINAL NUMBER 5 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	7	5	8	8	91	6	0
2	34	0	11	0	0	38	7
3	0	0	7	0	0	0	0
4	0	0	0	0	0	0	6
5	0	0	0	0	0	0	4
TOTAL	41	5	26	8	91	44	17
TOTAL SIGNALS		232					

## TERMINAL NUMBER 6 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	13	19	2	6	14	93	6
2	76	0	4	0	0	67	1
3	0	0	1	0	0	0	1
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	1
TOTAL	89	19	7	6	14	160	9
TOTAL SIGNALS		304					

## TERMINAL NUMBER 7 SIGNAL COUNT

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	2	0	3	3	9	0
2	18	0	19	0	0	23	0
3	0	0	1	0	0	0	5
4	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0
TOTAL	19	2	20	3	3	32	7
TOTAL SIGNALS		86					

AFAL-TR-76-120

PDI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	53	107	0	0	0	160
2	19	112	0	0	0	131
3	13	14	0	0	0	27
4	18	96	0	0	0	114
5	7	34	0	0	0	41
6	13	76	0	0	0	89
7	1	18	0	0	0	19
TOTAL	124	457	0	0	0	581

ADI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	30	0	0	0	0	30
2	53	0	0	0	0	53
3	37	0	0	0	0	37
4	58	0	0	0	0	58
5	5	0	0	0	0	5
6	19	0	0	0	0	19
7	2	0	0	0	0	2
TOTAL	204	0	0	0	0	204

AI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	16	6	4	0	0	26
2	15	4	0	0	0	19
3	3	0	0	0	0	3
4	28	6	1	0	0	35
5	8	11	7	0	0	26
6	2	4	1	0	0	7
7	0	19	1	0	0	20
TOTAL	72	50	14	0	0	136



## SI SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	15	0	0	0	0	15
5	8	0	0	0	0	8
6	6	0	0	0	0	6
7	3	0	0	0	0	3
TOTAL	32	0	0	0	0	32

## PDO SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	52	0	0	0	0	52
2	16	0	0	0	0	16
3	0	0	0	0	0	0
4	54	0	0	0	0	54
5	91	0	0	0	0	91
6	14	0	0	0	0	14
7	3	0	0	0	0	3
TOTAL	230	0	0	0	0	230

## ADO SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	44	90	0	0	0	134
2	7	59	0	0	0	66
3	19	22	0	0	0	41
4	27	136	0	0	0	163
5	6	38	0	0	0	44
6	93	67	0	0	0	160
7	9	23	0	0	0	32
TOTAL	205	435	0	0	0	640

AFAL-TR-76-120

AO SSIM SIGNAL COUNT

SSIM TERM	1	2	3	4	5	TOTAL
1	12	1	2	5	12	32
2	0	0	0	0	2	2
3	2	1	0	0	1	4
4	1	17	3	0	4	25
5	0	7	0	6	4	17
6	6	1	1	0	1	9
7	0	0	5	2	0	7
TOTAL	21	27	11	13	24	96

AFAL-TR-76-120

MODULE COUNT SUMMARY, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	8	10	6	5	10	10	5
2	18	0	7	0	0	17	7
3	0	0	5	0	0	0	4
4	0	0	0	0	0	0	3
5	0	0	0	0	0	0	7
TOTAL	26	10	18	5	10	27	26
TOTAL MODULES	122						



## TERMINAL NUMBER 1 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	2	1	1	0	2	2	2
2	4	0	1	0	0	3	1
3	0	0	1	0	0	0	1
4	0	0	0	0	0	0	1
5	0	0	0	0	0	0	2
TOTAL	6	1	3	0	2	5	7
TOTAL MODULES	24						

## TERMINAL NUMBER 2 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	2	1	0	1	1	0
2	4	0	1	0	0	2	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	1
TOTAL	5	2	2	0	1	3	1
TOTAL MODULES	14						

## TERMINAL NUMBER 3 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	2	1	0	0	1	1
2	1	0	0	0	0	1	1
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	1
TOTAL	2	2	1	0	0	2	3
TOTAL MODULES	10						

## TERMINAL NUMBER 4 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	2	1	2	2	1	1
2	3	0	1	0	0	5	3
3	0	0	1	0	0	0	1
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	1
TOTAL	4	2	3	2	2	6	6
TOTAL MODULES	25						

AFAL-TR-76-120

TERMINAL NUMBER 5 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	1	1	1	3	1	0
2	2	0	1	0	0	2	1
3	0	0	1	0	0	0	0
4	0	0	0	0	0	0	1
5	0	0	0	0	0	0	1
TOTAL	3	1	3	1	3	3	3
TOTAL MODULES		17					

TERMINAL NUMBER 6 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	1	1	1	1	3	1
2	3	0	1	0	0	3	1
3	0	0	1	0	0	0	1
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	1
TOTAL	4	1	3	1	1	6	4
TOTAL MODULES		20					

TERMINAL NUMBER 7 MODULE COUNT, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	1	1	0	1	1	1	0
2	1	0	2	0	0	1	0
3	0	0	1	0	0	0	1
4	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0
TOTAL	2	1	3	1	1	2	2
TOTAL MODULES		12					

## PDI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	2	4	0	0	0	6
2	1	4	0	0	0	5
3	1	1	0	0	0	2
4	1	3	0	0	0	4
5	1	2	0	0	0	3
6	1	3	0	0	0	4
7	1	1	0	0	0	2
TOTAL	8	18	0	0	0	26

## ADI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	1	0	0	0	0	1
2	2	0	0	0	0	2
3	2	0	0	0	0	2
4	2	0	0	0	0	2
5	1	0	0	0	0	1
6	1	0	0	0	0	1
7	1	0	0	0	0	1
TOTAL	10	0	0	0	0	10

## AI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	1	1	1	0	0	3
2	1	1	0	0	0	2
3	1	0	0	0	0	1
4	1	1	1	0	0	3
5	1	1	1	0	0	3
6	1	1	1	0	0	3
7	0	2	1	0	0	3
TOTAL	6	7	5	0	0	18



## SI SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	2	0	0	0	0	2
5	1	0	0	0	0	1
6	1	0	0	0	0	1
7	1	0	0	0	0	1
TOTAL	5	0	0	0	0	5

## PDO SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	2	0	0	0	0	2
2	1	0	0	0	0	1
3	0	0	0	0	0	0
4	2	0	0	0	0	2
5	3	0	0	0	0	3
6	1	0	0	0	0	1
7	1	0	0	0	0	1
TOTAL	10	0	0	0	0	10

## ADO SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	2	3	0	0	0	5
2	1	2	0	0	0	3
3	1	1	0	0	0	2
4	1	5	0	0	0	6
5	1	2	0	0	0	3
6	3	3	0	0	0	6
7	1	1	0	0	0	2
TOTAL	10	17	0	0	0	27

AFAL-TR-76-120

AO SSIM MODULE COUNT, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	2	1	1	1	2	7
2	0	0	0	0	1	1
3	1	1	0	0	1	3
4	1	3	1	0	1	6
5	0	1	0	1	1	3
6	1	1	1	0	1	4
7	0	0	1	1	0	2
TOTAL	5	7	4	3	7	26

UTILIZATION FACTOR SUMMARY, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.48	.44	.38	.00	.72	.64	.59
2	.79	.00	.45	.00	.00	.80	.48
3	.00	.00	.18	.00	.00	.00	.34
4	.00	.00	.00	.00	.00	.00	.04
5	.00	.00	.00	.00	.00	.00	.43
TOTAL	.70	.44	.35	.00	.72	.74	.46
OVERALL UTILIZATION FACTOR				.65			



## TERMINAL NUMBER 1 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.83	.94	.50	.00	.41	.68	.78
2	.84	.00	.38	.00	.00	.94	.13
3	.00	.00	.25	.00	.00	.00	.25
4	.00	.00	.00	.00	.00	.00	.63
5	.00	.00	.00	.00	.00	.00	.75
TOTAL	.83	.94	.41	.00	.81	.84	.57
TERMINAL UTILIZATION FACTOR .76							

## TERMINAL NUMBER 2 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.59	.83	.47	.00	.50	.22	.00
2	.88	.00	.25	.00	.00	.92	.00
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.25
TOTAL	.82	.83	.40	.00	.50	.69	.25
TERMINAL UTILIZATION FACTOR .70							

## TERMINAL NUMBER 3 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.41	.58	.09	.00	.00	.59	.25
2	.44	.00	.00	.00	.00	.69	.13
3	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.13
TOTAL	.42	.58	.09	.00	.00	.64	.17
TERMINAL UTILIZATION FACTOR .45							

## TERMINAL NUMBER 4 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.56	.91	.88	.94	.84	.84	.13
2	1.00	.00	.38	.00	.00	.85	.71
3	.00	.00	.00	.00	.00	.00	.38
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.50
TOTAL	.89	.91	.45	.94	.84	.85	.52
TERMINAL UTILIZATION FACTOR .81							

AFAL-TR-76-120

TERMINAL NUMBER 5 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.22	.16	.25	1.00	.95	.19	.00
2	.53	.00	.69	.00	.00	.59	.88
3	.00	.00	.44	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.75
5	.00	.00	.00	.00	.00	.00	.50
TOTAL	.43	.16	.41	1.00	.95	.46	.71
TERMINAL UTILIZATION FACTOR	.56						

TERMINAL NUMBER 6 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.41	.59	.06	.75	.44	.97	.75
2	.79	.00	.25	.00	.00	.70	.13
3	.00	.00	.06	.00	.00	.00	.13
4	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.13
TOTAL	.70	.59	.11	.75	.44	.83	.28
TERMINAL UTILIZATION FACTOR	.62						

TERMINAL NUMBER 7 UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM	PDI	ADI	AI	SI	PDO	ADO	AO
1	.03	.06	.00	.38	.09	.28	.00
2	.56	.00	.59	.00	.00	.72	.00
3	.00	.00	.06	.00	.00	.00	.63
4	.00	.00	.00	.00	.00	.00	.25
5	.00	.00	.00	.00	.00	.00	.00
TOTAL	.30	.06	.42	.38	.09	.50	.44
TERMINAL UTILIZATION FACTOR	.33						

## PDI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.03	.04	.00	.00	.00	.03
2	.59	.88	.00	.00	.00	.82
3	.41	.44	.00	.00	.00	.42
4	.56	1.00	.00	.00	.00	.89
5	.22	.53	.00	.00	.00	.43
6	.41	.79	.00	.00	.00	.70
7	.03	.56	.00	.00	.00	.30
TOTAL	.48	.79	.00	.00	.00	.70

## ADI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.94	.00	.00	.00	.00	.94
2	.83	.00	.00	.00	.00	.83
3	.58	.00	.00	.00	.00	.58
4	.91	.00	.00	.00	.00	.91
5	.16	.00	.00	.00	.00	.16
6	.59	.00	.00	.00	.00	.59
7	.06	.00	.00	.00	.00	.06
TOTAL	.64	.00	.00	.00	.00	.64

## AI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.50	.38	.25	.00	.00	.41
2	.47	.25	.00	.00	.00	.40
3	.09	.00	.00	.00	.00	.09
4	.88	.38	.06	.00	.00	.55
5	.25	.69	.44	.00	.00	.41
6	.06	.25	.06	.00	.00	.11
7	.00	.59	.06	.00	.00	.42
TOTAL	.38	.45	.18	.00	.00	.35



## SI SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00
4	.94	.00	.00	.00	.00	.94
5	1.00	.00	.00	.00	.00	1.00
6	.75	.00	.00	.00	.00	.75
7	.38	.00	.00	.00	.00	.38
TOTAL	.80	.00	.00	.00	.00	.80

## PDO SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.81	.00	.00	.00	.00	.81
2	.50	.00	.00	.00	.00	.50
3	.00	.00	.00	.00	.00	.00
4	.84	.00	.00	.00	.00	.84
5	.95	.00	.00	.00	.00	.95
6	.44	.00	.00	.00	.00	.44
7	.09	.00	.00	.00	.00	.09
TOTAL	.72	.00	.00	.00	.00	.72

## ADO SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.69	.94	.00	.00	.00	.84
2	.22	.92	.00	.00	.00	.69
3	.59	.69	.00	.00	.00	.64
4	.84	.85	.00	.00	.00	.85
5	.19	.59	.00	.00	.00	.46
6	.97	.70	.00	.00	.00	.83
7	.28	.72	.00	.00	.00	.50
TOTAL	.64	.80	.00	.00	.00	.74

AD SSIM UTILIZATION FACTOR, REDUNDANCY LEVEL 1

SSIM TERM	1	2	3	4	5	TOTAL
1	.75	.13	.25	.63	.75	.57
2	.00	.00	.00	.00	.25	.25
3	.25	.13	.00	.00	.13	.17
4	.13	.71	.18	.00	.50	.52
5	.00	.88	.00	.75	.50	.71
6	.75	.13	.13	.00	.13	.28
7	.00	.00	.63	.25	.00	.44
TOTAL	.52	.48	.14	.64	.43	.46

NORMAL EOJ

AFAL-TR-76-120

ISWIT = 1

TERMINAL 1 LRU ASSIGNMENTS

CM1A	CM1B	CM1C	CM1F	CM1H	CM1I	CM1J	CM1M	CM1O	CO2D
CO6E	FL1A	FL2A	FC1A	FC2A	FM1A	FM2A	MS4A	MS5A	NV1A
NV2F	NV4B	NV4F	NV5F	NV6F	NV6G	NV6D	NV7B	TD3A	TD4B
TD4C	TD4D	TD4M	TD4F	TD4Q	TD4R	TD5D	TD5A		

TERMINAL 2 LRU ASSIGNMENTS

CO1B	CO1C	CO6B	CO7A	EL2B	FC2B	FM2B	MS2A	TD5B	TD5E
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TERMINAL 3 LRU ASSIGNMENTS

CM3B	CO4B	CO5C	FL2C	FC2C	FM2C	MS3A	MS6A	NV2B	NV5C
NV6C	NV6B	TD1B	TD2B	TD5F					

TERMINAL 4 LRU ASSIGNMENTS

CM1D	CM2A	CM2B	CO1A	CO2B	CO3A	CO6A	CO6C	CO6F	CO6G
EL4A	FC4A	FM4A	NV2A	NV2C	NV3A	NV7A	TD1A	TD4A	TD5C

TERMINAL 5 LRU ASSIGNMENTS

CO2A	CO4A	CO5A	CO5B	CO4D	FL4B	FC4B	FM4B	MS1A	NV1B
NV2E	NV4A	NV4C	NV4F	NV5A	NV5B	NV6A	NV6A	TD2A	TD3B
TD3C									

TERMINAL 6 LRU ASSIGNMENTS

CM1N	CM3A	FL3A	FL3B	EL3C	FL4C	EL4D	EL4F	FC3A	FC3B
FC4C	FC4D	FC4F	FM3C	FM4C	FM4F	NV2D	NV3B	NV4D	NV4G
NV6B	NV6C	TD4F	TD4F	TD4G	TD4H	TD4I	TD4J	TD4K	TD4L
TD4N	TD4O								

TERMINAL 7 LRU ASSIGNMENTS

CM1F	CM1G	CM1K	CM1L	CO2C	CO5D	CO6H	FL5A	FC5A	FM5A
NV5D	TD2C								



## 7. SYSTEM "A" INFACE ANALYSIS

AFAL-TR-76-120

PASSIVE DISCRETE INPUT SSIM

1	2.0000 LUTV	0.8000 LZTV	.10E+06 IZ	0.0010 PWR	32 CHAN/MOD
2	18.0000 LUTV	12.0000 LZTV	.10E+06 IZ	0.0100 PWR	32 CHAN/MOD

ACTIVE DISCRETE INPUT SSIM

1	.50E+05 LUZT	.10E+04 LZZT	32 CHAN/MOD
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ANALOG INPUT SSIM

1	10.0000 CRUB	-2.5000 CRLB	.10E+07 IZ	13. QUAN	TYPE DC	32 CHAN/MOD
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GAINS	2.000	1.000	0.500	0.400	0.250	0.100	0.000
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SYNCHRO INPUT SSIM

1	11.8000 VR	.20E+05 IZ	13. QUAN	8 CHAN/MOD
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PASSIVE DISCRETE OUTPUT SSIM

1	.50E+02 LOZ	.10E+06 LZZ	200.0000 CSM	32 CHAN/MOD
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ACTIVE DISCRETE OUTPUT SSIM

1	6.0000	0.0000	0.0000	0.0000	0.0000
2	28.0000	0.0000	0.0000	0.0000	0.0000

ANALOG OUTPUT SSIM

1	10.0000 VUB	-2.5000 VLB	.00E+00 SZ	13. QUAN	TYPE DC	8 CHAN/MOD
2	30.0000 VUB	-5.0000 VLB	.00E+00 SZ	13. QUAN	TYPE DC	8 CHAN/MOD

SYSTEM SYSA READ

SYSTEM SYSA FOUND

I COUNTED 2300 DATA SIGNALS





## SSIN SUMMARY BY LRU FOR TERMINAL 2

LRU	PDI					AI					SI					ADU					AU				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
C172	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C11C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C11D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C128	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C13A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C168	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C18D	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MS7A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RT8	51	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD1F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD2C	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD30	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3C	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD48	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD78	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## SSIM SUMMARY BY LAU FOR TERMINAL 3

LAU	PDI					ADI					AI					SI					FDD					ADD					AO				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CIT3	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHIB	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CH11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CH1N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CH2A	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CH3B	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO1A	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CUBB	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NS2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NS3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NS4A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NVIC	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV1H	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV1J	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV1L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV2B	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV2C	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV4D	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV5C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV6B	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2	33	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T01C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T05B	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T07E	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## SSIM SUMMARY BY LRU FOR TERMINAL 4

LRU	PDI					AI					SI					PDU					ADO					AU				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CC18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C174	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C175	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C02A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C03B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C04A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C06A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C06C	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C06F	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C06G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV2A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV4A	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV4B	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV5A	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV5A	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV5B	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV6C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV6D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV7A	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R13	22	6	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T07C	7	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T07F	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



338

SSIN SUMMARY BY LRU FOR TERMINAL 6																															
LRU	PDI	ADI					AI					SI					PDU					ADU					AO				
		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CITE	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
CMJA	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0
COSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CUSI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HSSA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
HVID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
HVIE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVJB	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVAC	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TDAA	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0

## SIN SUMMARY BY LRU FOR TERMINAL 7

LRU	PDI					AI					EI					PDU					ADU					AD				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CIT9	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHIF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHIG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHIK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHZD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHZE	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COZC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO3C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO5B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HYSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YD5A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YD6C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORMAL EOI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



## 8. SYSTEM "B" INFACE ANALYSIS

PASSIVE DISCRETE INPUT SSIM									
1	2.0000	LOTV	0.8000	LZTV	.10E+06	IZ	0.0010	PWR	32 CHAN/MOD
2	18.0000	LOTV	12.0000	LZTV	.10E+06	IZ	0.0100	PWR	32 CHAN/MOD
ACTIVE DISCRETE INPUT SSIM									
1	.50E+05	LOZI	.10E+04	LZZI					32 CHAN/MOD
ANALOG INPUT SSIM									
1	10.0000	CRUB	-2.5000	CRLB	.10E+07	IZ	13.	QUAN	TYPE DC 32 CHAN/MOD
GAINS	2.000	1.000	0.500	0.400	0.250	0.100	0.000		
2	10.0000	CRUB	0.0000	CRLB	.10E+07	IZ	13.	QUAN	TYPE AC 16 CHAN/MOD
GAINS	4.000	2.000	1.000	0.500	0.400	0.250	0.100		
3	5.0000	CRUB	-5.0000	CRLB	.10E+07	IZ	13.	QUAN	TYPE DC 32 CHAN/MOD
GAINS	2.000	1.000	0.500	0.400	0.250	0.100	0.000		
4	1.5000	CRUB	0.0000	CRLB	.10E+07	IZ	13.	QUAN	TYPE 16 CHAN/MOD
GAINS	4.000	2.000	1.000	0.500	0.400	0.250	0.100		
SYNCHRO INPUT SSIM									
1	11.8000	VR	.20E+05	IZ	13.	QUAN	8	CHAN/MOD	
2	3.6000	VR	.10E+05	IZ	13.	QUAN	8	CHAN/MOD	
PASSIVE DISCRETE OUTPUT SSIM									
1	.50E+02	LOZ	.10E+06	LZZ	200.0000	CSM			32 CHAN/MOD
ACTIVE DISCRETE OUTPUT SSIM									
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
2	28.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
ANALOG OUTPUT SSIM									
1	10.0000	VUB	-2.5000	VLB	.00E+00	SZ	13.	QUAN	TYPE DC 8 CHAN/MOD
2	5.0000	VUB	-5.0000	VLB	.00E+00	SZ	13.	QUAN	TYPE AC 8 CHAN/MOD
3	5.0000	VUB	-5.0000	VLB	.00E+00	SZ	13.	QUAN	TYPE DC 8 CHAN/MOD
4	30.0000	VUB	-5.0000	VLB	.00E+00	SZ	13.	QUAN	TYPE AC 8 CHAN/MOD
5	30.0000	VUB	-5.0000	VLB	.00E+00	SZ	13.	QUAN	TYPE DC 8 CHAN/MOD
SYSTEM SYSB READ									

SYSTEM SYSB FOUND

I COUNTED 1521 DATA SIGNALS

## SSIM SUMMARY BY LRU FOR TERMINAL 1

LRU	PDI					ADI					SI					PDU					ADD					AU				
	1	2	3	4	5	1	2	3	4	5	1	4	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CM1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CM1B	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CM1C	13	3	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CM1E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CM1H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CM1I	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CM1J	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CM1M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CM1O	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO2D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU6E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EL1A	3	23	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EL2A	10	9	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FC1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FC2A	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FM1A	1	12	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FM2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MS4A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MS5A	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV1A	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV2F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV4B	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV4F	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV5E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV5G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV6D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV7B	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID3A	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD4B	20	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD4C	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD4D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD4M	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD4P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD4Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD4R	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD5D	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD5A	1	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



## SSIA SUMMARY BY LRU FOR TERMINAL 2

LRU	PDI					ADI					AI					SI					PUU					ADU					AU				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CU1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU1C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU6B	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU7A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EL2B	1	18	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FC2B	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FM2B	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MS2A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD5B	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD5E	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## SSIM SUMMARY BY LAU FOR TERMINAL 3

LRU	PDI					ADI					AI					SI					PDU					ADO					AO				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5					
CM3B	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	1	1	0	0	0	0	0	0		
CD4B	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CD5C	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
EL2C	11	19	0	0	0	3	0	0	0	0	9	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	4	31	0	0	0	0	0	2	
FC2C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
FR2C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
MS3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
MS6A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0		
NV2B	4	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0		
NV5C	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
NV6C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
NV8B	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	1		
TD1B	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TD2B	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TD5F	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	2	0	0	0	0	0	0		

## SSIM SUMMARY BY LRU FOR TERMINAL 4

LRU	POI					ADI					SI					PDU					ADU					AU				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CM1D	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CM2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CM2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU2B	0	22	0	0	0	44	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU3A	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU6A	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU6C	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU6F	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU6G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EL4A	0	11	0	0	0	1	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FC4A	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FM4A	1	11	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MY2A	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MY2C	8	10	0	0	0	3	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MY3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MY7A	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YD1A	24	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YD4A	102	23	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YD5C	7	24	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0



## SSIM SUMMARY BY LRU FOR TERMINAL 5

LRU	PDI					ADI					SI					POU					AUO					AU					
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	
CU2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CU4A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	
CU5A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CU5B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CU6D	0	13	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	
EL4B	3	15	0	0	0	0	0	0	0	0	2	0	0	0	0	15	0	0	0	0	0	19	0	0	0	0	0	0	4	0	
FC4B	0	4	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	
FM4B	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
MS1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NV1B	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NV2E	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	1
NV4A	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	
NV4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NV4E	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
NV5A	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
NV5B	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NV6A	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	0	2	0	
NV8A	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	1	1	0	0	0	0	0	0	0	
TD2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
TD3B	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	3	0	
TD3C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

[illegible]

SSIM SUMMARY BY LRU FOR TERMINAL 7

LRU	PDI					ADI					AI					SI					POU					ADO					AU				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5					
CN1F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CN1G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CN1K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CN1L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CO2C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CO5D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CO6H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ELSA	1	9	0	0	0	2	0	0	0	0	0	4	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
FCSA	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0		
FN5A	0	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
NVSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
YD2C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
NORMAL EOJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		



## 9. SYSTEM "C" INFACE ANALYSIS

AFAL-TR-76-120

PASSIVE DISCRETE INPUT SSIM									
1	2.0000	LOTV	0.8000	LZTV	.10E+06	IZ	0.0010	PWR	32 CHAN/MOD
2	18.0000	LOTV	12.0000	LZTV	.10E+06	IZ	0.0100	PWR	32 CHAN/MOD
ACTIVE DISCRETE INPUT SSIM									
1	.50E+05	LUZT	.10E+04	LZZT	32 CHAN/MOD				
ANALOG INPUT SSIM									
1	10.0000	CRUB	-2.5000	CRLB	.10E+07	IZ	13.	QUAN	TYPE DC 32 CHAN/MOD
GAINS	2.000	1.000	0.500	0.400	0.250	0.100	0.000		
2	10.0000	CRUB	0.0000	CHLB	.10E+07	IZ	13.	QUAN	TYPE AC 16 CHAN/MOD
GAINS	4.000	2.000	1.000	0.500	0.400	0.250	0.100		
3	1.5000	CRUB	0.0000	CHLB	.10E+07	IZ	13.	QUAN	TYPE 16 CHAN/MOD
GAINS	4.000	2.000	1.000	0.500	0.400	0.250	0.100		
SYNCHRO INPUT SSIM									
1	11.8000	VR	.20E+05	IZ	13.	QUAN	8 CHAN/MOD		
PASSIVE DISCRETE OUTPUT SSIM									
1	.50E+02	LQZ	.10E+06	LZZ	200.0000	CSM	32 CHAN/MOD		
ACTIVE DISCRETE OUTPUT SSIM									
1	6.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
2	28.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
ANALOG OUTPUT SSIM									
1	10.0000	VUB	-2.5000	VLB	.00E+00	SZ	13.	QUAN	TYPE DC 8 CHAN/MOD
2	5.0000	VUB	-5.0000	VLB	.00E+00	SZ	13.	QUAN	TYPE AC 8 CHAN/MOD
3	5.0000	VUB	-5.0000	VLB	.00E+00	SZ	13.	QUAN	TYPE DC 8 CHAN/MOD
4	30.0000	VUB	-5.0000	VLB	.00E+00	SZ	13.	QUAN	TYPE AC 8 CHAN/MOD
5	30.0000	VUB	-5.0000	VLB	.00E+00	SZ	13.	QUAN	TYPE DC 8 CHAN/MOD
SYSTEM SYSC READ									

SYSTEM SYSC FOUND

I COUNTED 1626 DATA SIGNALS

352



## SSIM SUMMARY BY LRU FOR TERMINAL 2

SSRN SUMMARY BY LRU FOR TERMINAL 2	PDI					ADT					AI					SI					POU					AUU					AU				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5					
LRU																																			
CO1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
CU1C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
CU6B	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
EL2B	1	18	0	0	0	13	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
EL2C	11	19	0	0	0	3	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
FC2B	0	28	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
FM2B	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
MS2A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
TD1B	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
TD2C	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
TD4B	5	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
TD5B	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
TD5E	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					

## SSIM SUMMARY BY LRU FOR TERMINAL 3

LRU	PDI					AI					SI					PDU					ADO					AU				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
C048	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C05C	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FC2C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FR2C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NP18	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY2B	4	2	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY5C	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY6C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY7B	5	4	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T05D	2	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T06B	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

355



SSIM SUMMARY BY LRU FOR TERMINAL 5

LRU	PDI					ADI					AI					BI					PGU					ADD					AO				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CO2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO2C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO2D	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EL4B	3	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FC4B	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FR4B	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NS-1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV1A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV4A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV4E	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV5A	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV5B	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV6A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV7A	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD6A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## SSIM SUMMARY BY LRU FOR TERMINAL 6

LRU	PDI					ADI					AI					SI					PDU					ADO					AU				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CH1H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CH3A	0	2	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EL3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EL3C	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EL4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EL4D	0	7	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EL4F	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FC3A	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FC3B	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FC4C	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FC4D	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FC4F	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FM3C	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FM4C	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FM4E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV2D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV4D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV6B	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV7C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD1A	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD2A	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD2D	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3E	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3F	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3G	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3H	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3I	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3J	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3K	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3L	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD3O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TD4A	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## SSIM SUMMARY BY LRU FOR TERMINAL 7

LRU	PDI					AD					AI					SI					PDU					ADU					AU				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CMIF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CMIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CMIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CMIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU2C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU5D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU6D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ELSA	1	9	0	0	0	2	0	0	0	0	0	4	1	0	0	3	0	0	0	0	0	0	0	0	0	4	12	0	0	0	0	0	0	0	0
FCSA	0	5	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FN5A	0	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NV5D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YD5C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORMAL EQU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



AFAL-TR-76-120

10. SIGNAL COUNT (SIGCNT)

Listings For Systems "A", "B" and "C"

AFAL-TR-76-120

SIGNAL COUNT FOR SYSTEM A = 2300

SIGNAL COUNT FOR SYSTEM B = 1521

SIGNAL COUNT FOR SYSTEM C = 1626

NORMAL EQU